CMT-DC1

SERVICE MANUAL

Ver 1.2 2002.10

US Model
Canadian Model
AEP Model
UK Model
E Model

- CMT-DC1 is composed of following models.
  As service manuals are issued for each component model, please refer to them.

COMPONENT MODEL NAME

	CMT-DC1
COMPACT DISC DECK RECEIVER SYSTEM	HCD-DC1
SPEAKER SYSTEM	SS-CDC1

- Abbreviation
  CND : Canadian model
  HK : Hong Kong model
  MX : Mexican model
  MY : Malaysia model
  SP : Singapore model

SPECIFICATIONS

Power requirements
North American model: 120 V AC, 60 Hz
European model: 230 V AC, 50/60 Hz
Mexican model: 120 V AC, 60 Hz
Other models: 110 - 120 V or 220 - 240 V AC, 50/60 Hz
Adjustable with voltage selector

Power consumption
European model: See the nameplate
0.5 W (in the standby mode)
Other models: See the nameplate

Dimensions (w/h/d) Approx. 191 × 253 × 346 mm incl. projecting parts and controls

Mass Approx. 5.6 kg

Supplied accessories Remote commander (1)
AM loop antenna (1)
FM wire antenna (1)
Batteries (2)
Speaker grille net (2)

Design and specifications are subject to change without notice.

PARTS LIST

Part No.	Description	Remark
1-476-663-21	REMOTE COMMANDER (RM-SDC1)	
1-501-374-11	ANTENNA, LOOP (AM)	
1-501-659-61	ANTENNA (FM) (EXCEPT AEP, UK)	
⚠1-569-008-21	ADAPTOR, CONVERSION 2P (SP, MY)	
1-754-060-11	ANTENNA (FM) (AEP, UK)	
4-230-866-01	COVER (BATTERY) (for RM-SDC1)	
4-235-851-11	MANUAL, INSTRUCTION (ENGLISH)	
4-235-851-21	MANUAL, INSTRUCTION (FRENCH, SPANISH)	(AEP, MX, MY, SP)
4-235-851-31	MANUAL, INSTRUCTION (GERMAN, DUTCH, ITALIAN, SWEDISH, POLISH) (AEP)	
4-235-851-41	MANUAL, INSTRUCTION (TRADITIONAL CHINESE)	(HK, MY, SP)
4-235-851-51	MANUAL, INSTRUCTION (FRENCH) (US, CND)	
4-235-852-11	MANUAL, INSTRUCTION (GREEK) (AEP)	
4-235-852-21	MANUAL, INSTRUCTION (HUNGARIAN, CZECH) (AEP)	
4-235-852-31	MANUAL, INSTRUCTION (TURKISH) (AEP)	
4-235-852-41	MANUAL, INSTRUCTION (SLOVAKIAN) (AEP)	
4-236-346-11	MANUAL, INSTRUCTION (DANISH, FINNISH) (AEP)	
4-236-346-21	MANUAL, INSTRUCTION (PORTUGUESE) (AEP)	
X-4954-044-1	NET ASSY, SPEAKER (SILVER)	
X-4954-079-1	NET ASSY, SPEAKER (BLACK)	
X-4954-080-1	NET ASSY, SPEAKER (RED)	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

MICRO Hi-Fi COMPONENT SYSTEM

9-873-182-03
2002J0500-1
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Sony Corporation
Home Audio Company
Published by Sony Engineering Corporation

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HCD-DC1

SERVICE MANUAL

Ver 1.1 2001.09

US Model
Canadian Model
AEP Model
UK Model
E Model

HCD-DC1 is the Amplifier, CD player, Tape Deck and Tuner section in CMT-DC1.

CD Section	Model Name Using Similar Mechanism	HCD-CP100
	CD Mechanism Type	CDM55F-K6BD41A
Tape deck Section	Model Name Using Similar Mechanism	HCD-CP100

SPECIFICATIONS

Amplifier section

For the U.S. model

AUDIO POWER SPECIFICATIONS

POWER OUTPUT AND TOTAL HARMONIC DISTORTION:

With 6-ohm loads, both channels driven, from 70 - 20,000 Hz; rated 18 watts per channel minimum RMS power, with no more than 0.9% total harmonic distortion from 250 milliwatts to rated output.

North American model:

Continuous RMS power output (reference): 35 + 35 W (6 ohms at 1 kHz, 10% THD)

Total harmonic distortion less than 0.07% (6 ohms at 1 kHz, 18 W)

European model:

DIN power output (rated): 30 + 30 W (6 ohms at 1 kHz, DIN)

Continuous RMS power output (reference): 35 + 35 W (6 ohms at 1 kHz, 10% THD)

Music power output (reference): 85 + 85 W

Other models:

The following measured at 230 V AC, 60 Hz

DIN power output (rated): 27 + 27 W (6 ohms at 1 kHz, DIN)

Continuous RMS power output (reference): 32 + 32 W (6 ohms at 1 kHz, 10% THD)

The following measured at 220 V AC, 60 Hz

DIN power output (rated): 23 + 23 W (6 ohms at 1 kHz, DIN)

Continuous RMS power output (reference): 26 + 26 W (6 ohms at 1 kHz, 10% THD)

Inputs

AUDIO IN MD (VIDEO) (phono jacks): Sensitivity 500/250 mV, impedance 47 kilohms

Outputs

OPTICAL DIGITAL OUT (CD): Optical

PHONES (stereo minijack): Accepts headphones with an impedance of 8 ohms or more

SPEAKER: Passive speaker system, 6 ohms

CD player section

System	Compact disc and digital audio system
Laser	Semiconductor laser (λ = 780 nm) Emission duration: continuous
Wavelength	780 - 790 nm
Frequency response	2 Hz - 20 kHz (±0.5 dB)

Tape player section

Recording system	4-track 2-channel stereo
Frequency response	50 - 13,000 Hz (±3 dB), using a Sony TYPE I cassette

Tuner section

FM stereo, FM/AM superheterodyne tuner

FM tuner section

Tuning range

North American model:	87.5 - 108.0 MHz (100-kHz step)
Other models:	87.5 - 108.0 MHz (50-kHz step)
Antenna	FM wire antenna
Antenna terminals	75 ohm unbalanced
Intermediate frequency	10.7 MHz

– Continued on next page –

MICRO Hi-Fi COMPONENT SYSTEM

9-873-181-02
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Shinagawa Tec Service Manual Production Group

SONY®

AM tuner section

Tuning range	
North American model:	530 - 1,710 kHz (with the tuning interval set at 10 kHz) 531 - 1,710 kHz (with the tuning interval set at 9 kHz)
European model:	531 - 1,602 kHz (with the tuning interval set at 9 kHz)
Other models:	530 - 1,710 kHz (with the tuning interval set at 10 kHz) 531 - 1,602 kHz (with the tuning interval set at 9 kHz)
Antenna	AM loop antenna, external antenna terminal
Intermediate frequency	450 kHz

General

Power requirements	
North American model:	120 V AC, 60 Hz
European model:	230 V AC, 50/60 Hz
Mexican model:	120 V AC, 60 Hz
Other models:	110 - 120 V or 220 - 240 V AC , 50/60 Hz Adjustable with voltage selector
Power consumption	
European model:	See the nameplate 0.5 W (in the standby mode)
Other models:	See the nameplate
Dimensions (w/h/d)	Approx. 191 × 253 × 346 mm incl. projecting parts and controls
Mass	Approx. 5.6 kg

Design and specifications are subject to change without notice.

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Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

Flexible Circuit Board Repairing

- Keep the temperature of the soldering iron around 270 ˚C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

CAUTION
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

This appliance is classified as a CLASS 1 LASER product. The CLASS 1 LASER PRODUCT MARKING is located on the rear exterior.

Laser component in this product is capable of emitting radiation exceeding the limit for Class 1.

The following caution label is located inside the unit.

CAUTION : INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED. AVOID EXPOSURE TO BEAM.
ADVARSEL : USYNLIG LASERSTRÅLING VED ÅBNING NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION. UNDGÅ UDSAETTELSE FOR STRÅLING.
VORSICHT : UNSICHTBARE LASERSTRAHLUNG, WENN ABDECKUNG GEÖFFNET UND SICHEREITSVERRIEGELUNG ÜBERBRÜCKT. NICHT DEM STRAHL AUSSETZEN.
VARO! : AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALTTIINA NÄKYMÄTTÖMÄLLE LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.
VARNING : OSYNLING LASERSTRÅLING NÄR DENNA DEL ÄR ÖPPNAD OCH SPÄRREN ÄR URKOPPLAD. BETRAKTA EJ STRÅLEN.
ADVERSEL : USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES OG SIKKERHEDSLÅS BRYTES. UNNGÅ EKSPONERING FOR STRÅLEN.
VIGYAZAT! : A BURKOLAT NYITÁSAKOR LÁTHATATLAN LÉZERSUGÁRVESZÉLY! KERÜLJE A BESUGÁRZÁST!

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer:
Check the antenna terminals, metal trim, “metallized” knobs, screws, and all other exposed metal parts for AC leakage.
Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes.). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers’ instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The “limit” indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

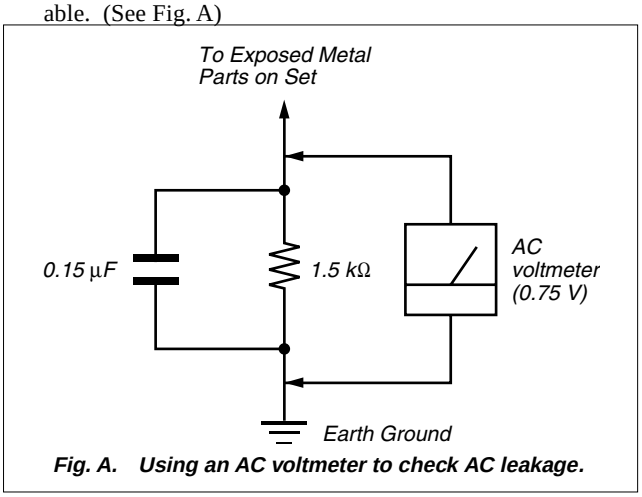


Fig. A. Using an AC voltmeter to check AC leakage.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

SECTION 1
SERVICING NOTES

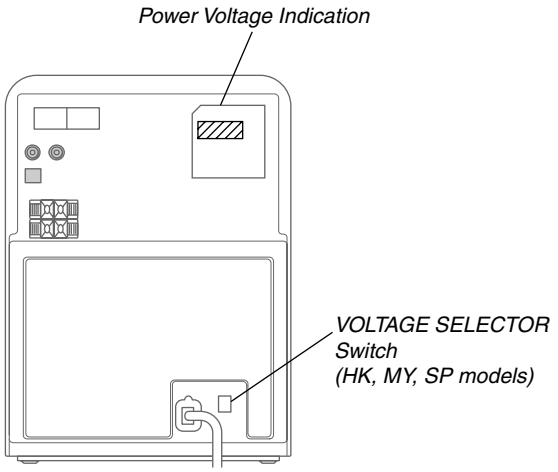
NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic break-down because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.
During repair, pay attention to electrostatic break-down and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

• MODEL IDENTIFICATION
– Rear Panel –

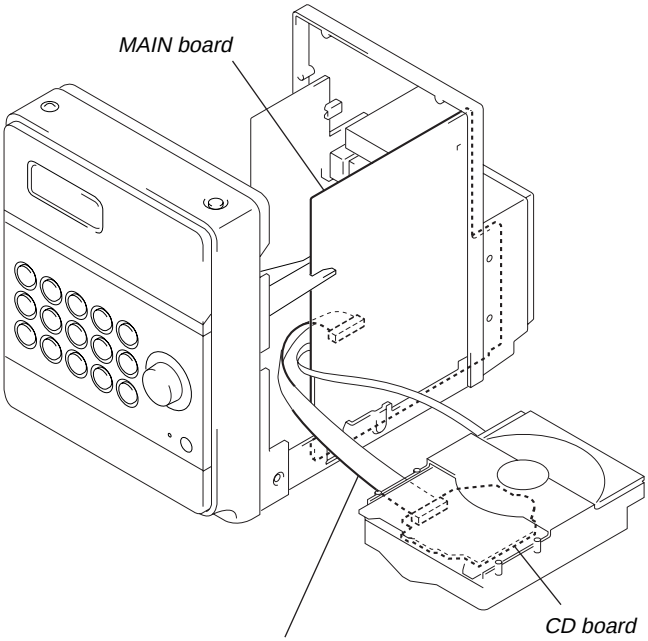


Model	Power Voltage Incdication
US, CND, MX models	AC: 120 V 60 Hz 75 W
AEP, UK models	AC: 230 V ∿50/60 Hz 75 W
HK, MY, SP models	AC: 110 – 120/ 220 – 240 V / 50/60 Hz 75 W

• Abbreviation
CND : Canadian model
HK : Hong Kong model
MX : Mexican model
MY : Malaysia model
SP : Singapore model

SERVICE POSTION

In checking the CD block, prepare jig (extension cable J-2501-011-B).



Connect jig (extension cable J-2501-011-B) to the MAIN board (CN101) and CD board (CN101).

SECTION 2
GENERAL

This section is extracted from instruction manual.

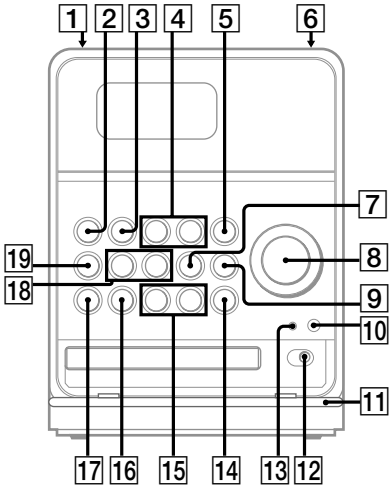
• **LOCATION OF CONTROLS**

Parts Identification

The items are arranged in alphabetical order.
Refer to the pages indicated in parentheses () for details.

Main unit

– Front View –

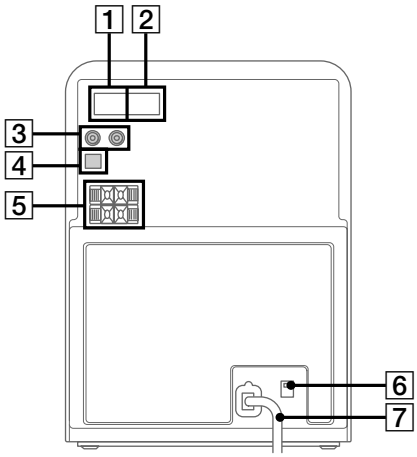


CD cover 11 (8, 18)
Shown open in the illustration above.
CD SYNC 9 (13, 14)
CD I◀◀ ◀◀/▶▶ ▶▶I 15 (8, 9, 14)
CD ⏏ 14 (8)
CD ▶II 17 (8, 9)
CD ■ 16 (8, 9, 21)
DSG indicator 13 (16)
FUNCTION 7 (8-10, 12-14, 18)
PHONES jack 12 (18)
Remote sensor 10
TAPE PAUSE ▮▮ 5 (12-14)
TAPE ◀▶ 2 (12-14)
TAPE ◀◀/▶▶ 4 (12)
TAPE ■ 3 (12-14, 21)
TUNER/BAND 19 (10, 21)
VOLUME 8 (17)

BUTTON DESCRIPTIONS

I/⏻ (power) 1 (7, 10, 15, 17, 18)
⏏ 6 (12)
+/– 18 (10, 11)

– Rear View –



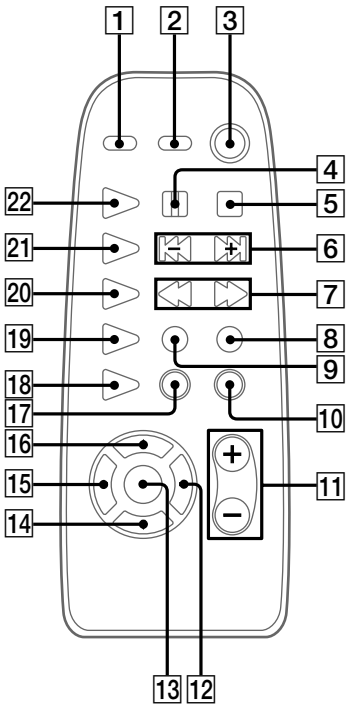
1 AM ANTENNA terminals
2 FM ANTENNA jack or terminals
3 AUDIO IN MD (VIDEO) jacks
4 CD DIGITAL OUT OPTICAL connector
5 SPEAKER terminals
6 VOLTAGE SELECTOR switch
(Hong Kong, Malaysia and Singapore models)
7 AC power cord

Setting the time

1 **Turn on the system.**
2 **Press TIMER SET on the remote.**
If you are setting the clock for the first time, go to step 5.
3 **Press I◀◀ /▶▶I on the remote repeatedly until "SET CLOCK" appears in the display.**
4 **Press ENTER on the remote.**
The hour indication flashes.
5 **Press I◀◀ /▶▶I on the remote repeatedly to set the hour.**
6 **Press ENTER on the remote.**
The minute indication flashes.
7 **Press I◀◀ /▶▶I on the remote repeatedly to set the minute.**
8 **Press ENTER on the remote.**
The clock will begin operating.

To reset the system clock
Start over from step 1.

Remote Control



CD REPEAT 18 (8)
CD ► 22 (8, 9)
DIR MODE 19 (12-14)
DISPLAY 2 (9, 11)
DSG 1 (16)
ENTER 13 (7, 10, 15, 17)
MEMORY 16 (10)
PLAY MODE 9 (8, 9, 14)
SLEEP 14 (16)
STEREO/MONO 17 (11)
TAPE ◄► 20 (12-14)
TIMER SELECT 12 (15, 17)
TIMER SET 15 (7, 15, 17)
TUNER/BAND 21 (10)
TUNING MODE 10 (10, 11)
VOL +/– 11 (17)

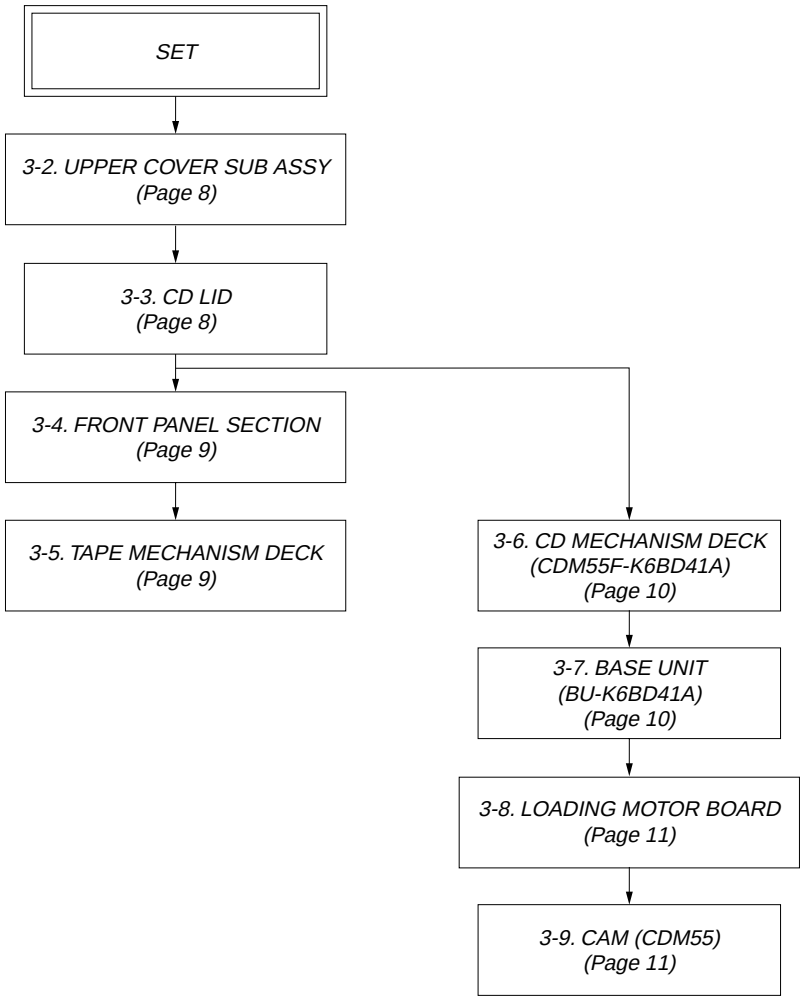
BUTTON DESCRIPTIONS

❚❚ 4 (8, 12-14)
■ 5 (8, 9, 12-14)
⏮/⏭ 6 (7-10, 15, 17)
◀◀/▶▶ 7 (8, 10-12)
I/⏻ (power) 3 (7, 10, 15, 17)
● REC 8 (13)

SECTION 3
DISASSEMBLY

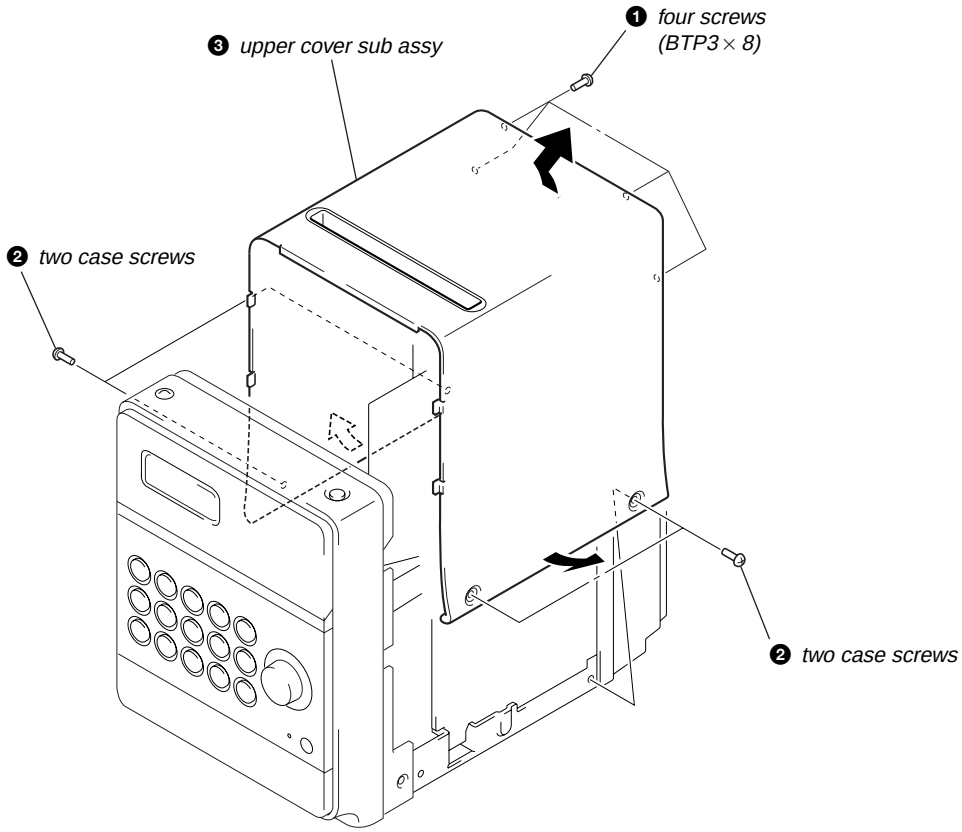
• This set can be disassembled in the order shown below.

3-1. DISASSEMBLY FLOW

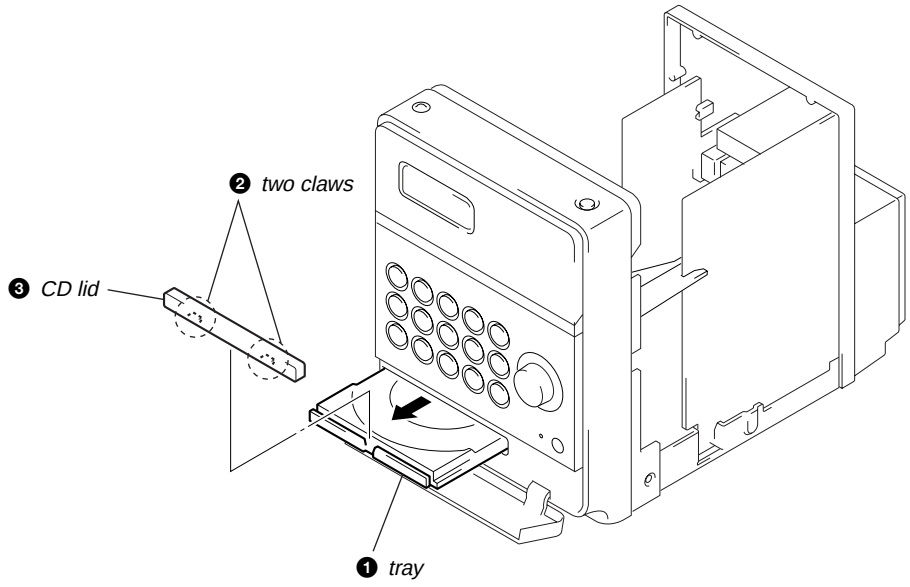


Note: Follow the disassembly procedure in the numerical order given.

3-2. UPPER COVER SUB ASSY

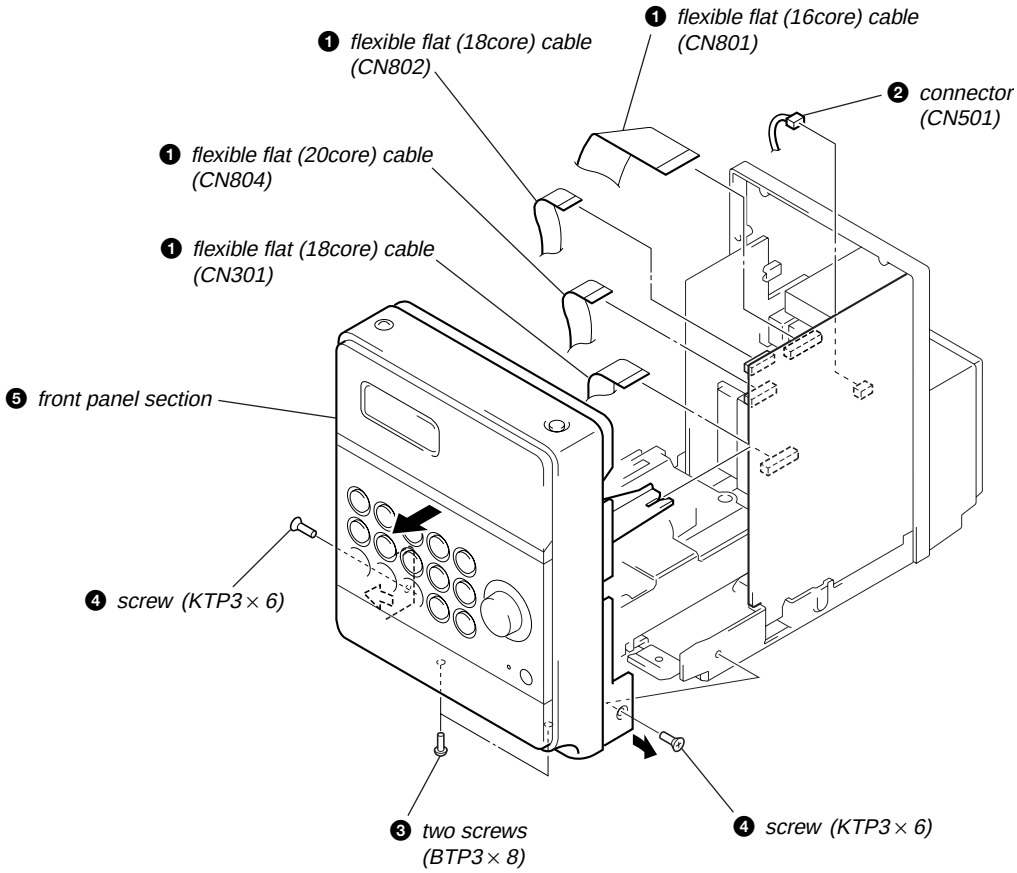


3-3. CD LID

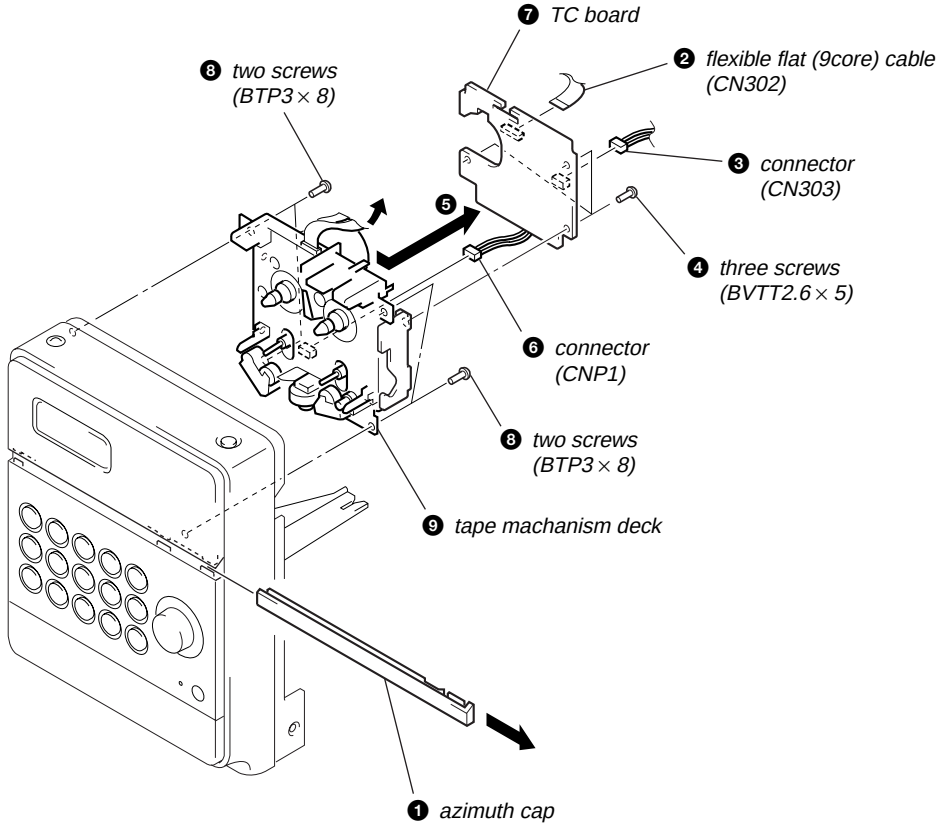


Note: Open the tray by supplying the power.

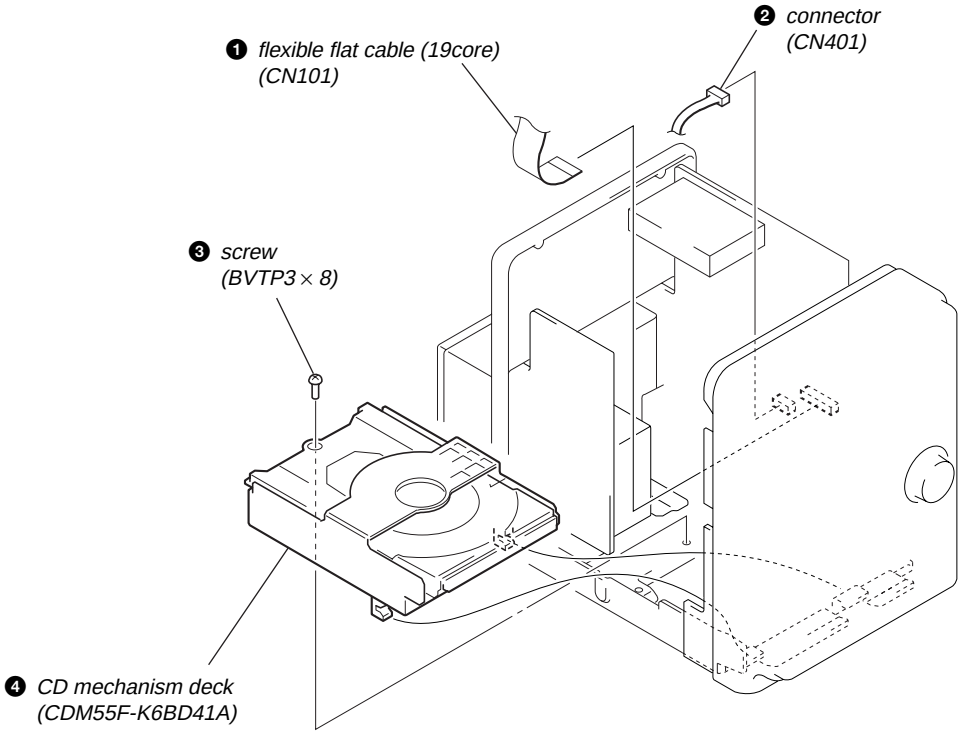
3-4. FRONT PANEL SECTION


❶ flexible flat (16core) cable (CN801)
❶ flexible flat (18core) cable (CN802)
❷ connector (CN501)
❶ flexible flat (20core) cable (CN804)
❶ flexible flat (18core) cable (CN301)
❺ front panel section
❹ screw (KTP3 × 6)
❸ two screws (BTP3 × 8)
❹ screw (KTP3 × 6)

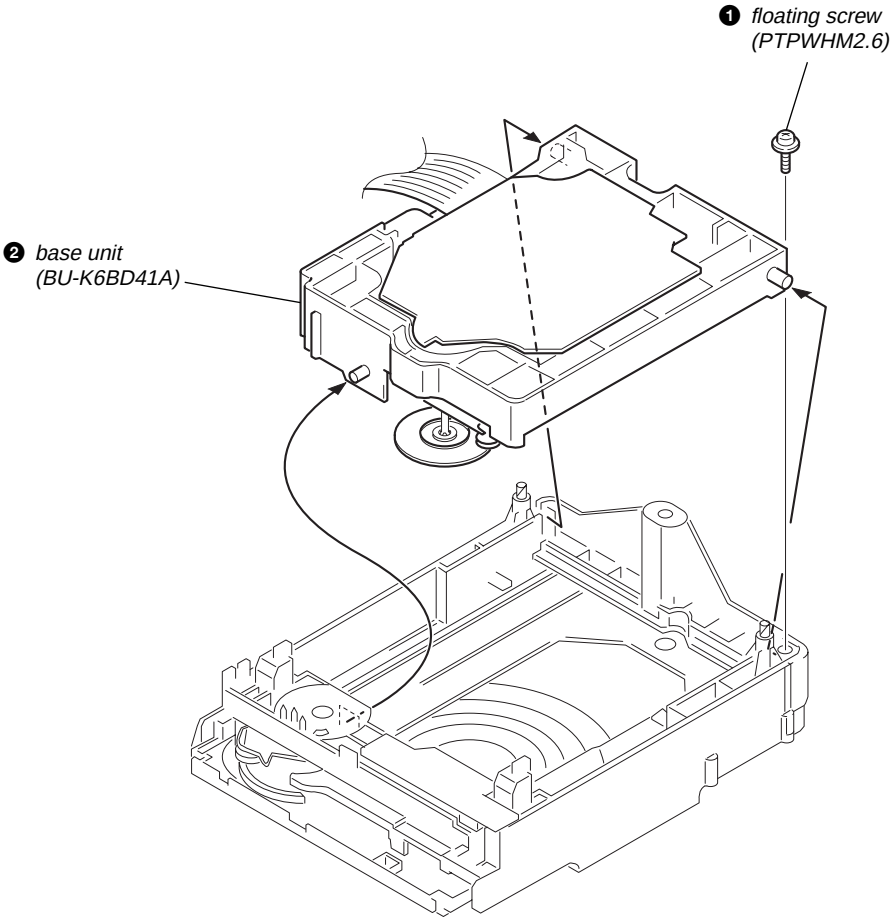
3-5. TAPE MECHANISM DECK


❼ TC board
❽ two screws (BTP3 × 8)
❷ flexible flat (9core) cable (CN302)
❸ connector (CN303)
❺
❹ three screws (BVTT2.6 × 5)
❻ connector (CNP1)
❽ two screws (BTP3 × 8)
❾ tape machanism deck
❶ azimuth cap

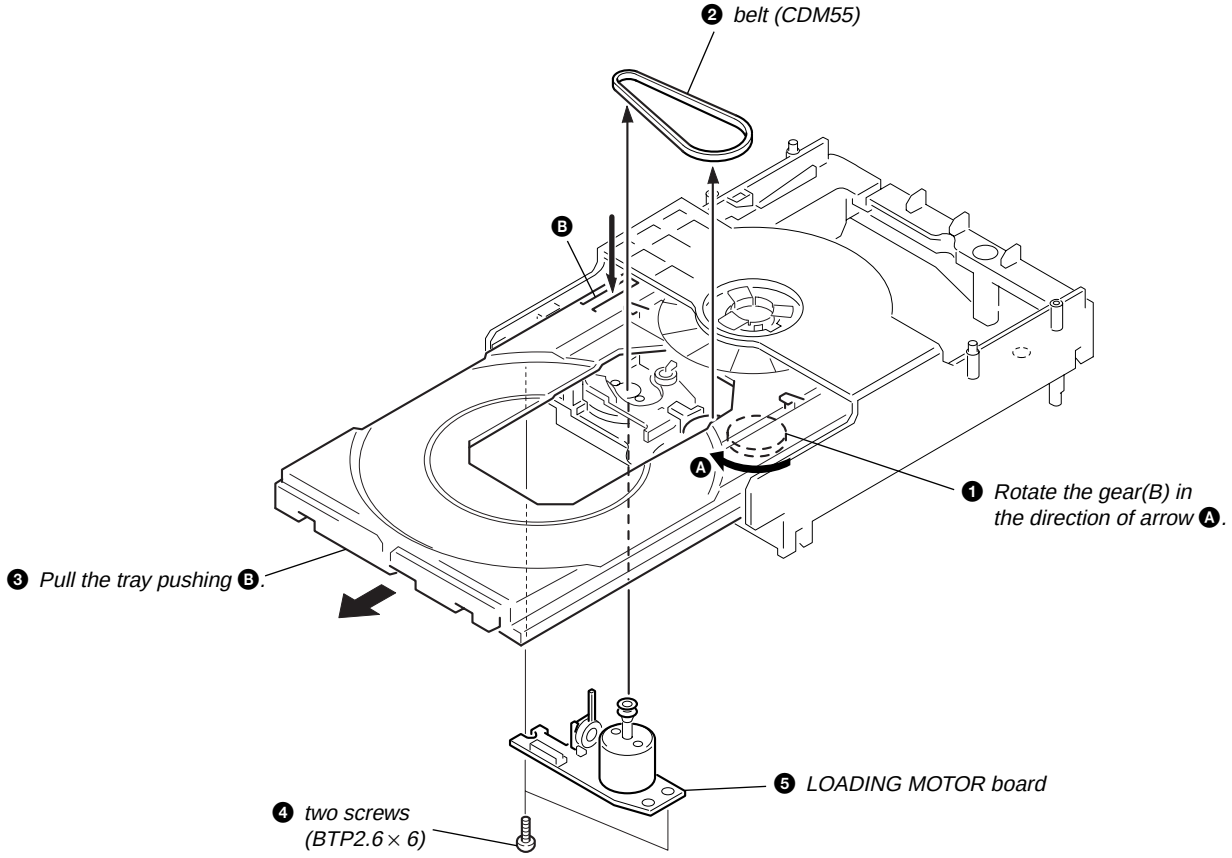
3-6. CD MECHANISM DECK (CDM55F-K6BD41A)



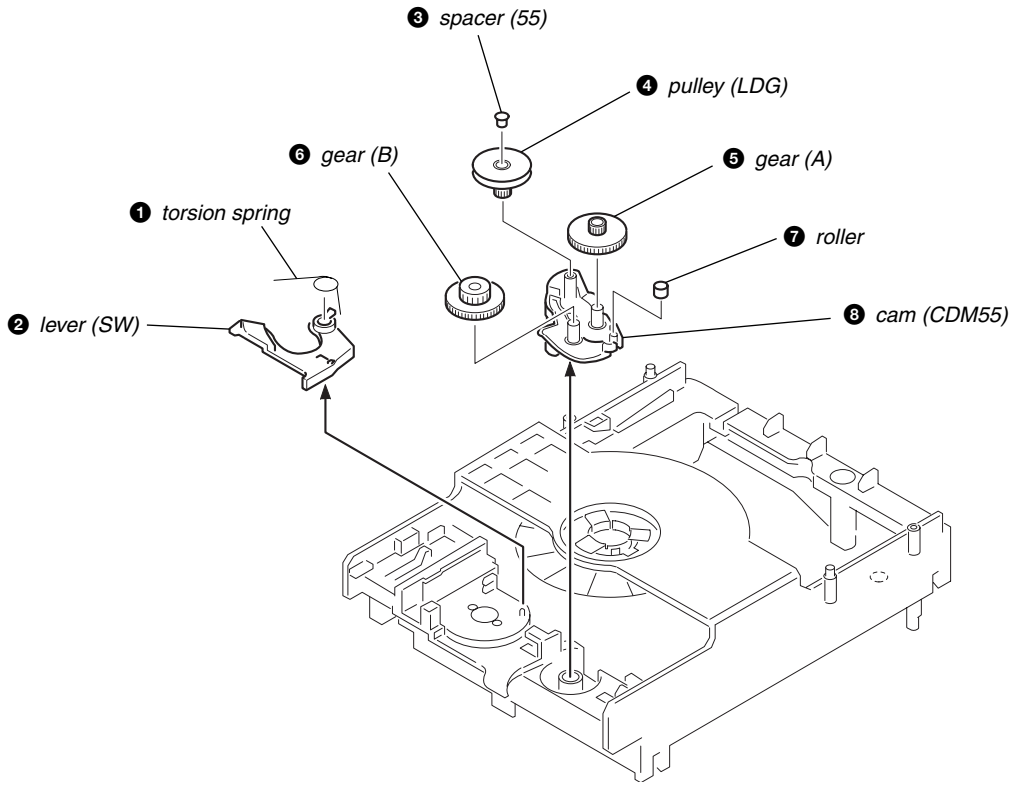
3-7. BASE UNIT (BU-K6BD41A)



3-8. LOADING MOTOR BOARD



3-9. CAM (CDM55)



SECTION 4
TEST MODE

[Cold Reset]

- The cold reset clears all data including preset data stored in the RAM to initial conditions. Execute this mode when returning the set to the customer.

Procedure:

1. Turn ON the power.
2. Press three buttons ■ (TAPE), ■ (CD), and TUNER/BAND simultaneously.
3. The set is reset.

[Liquid Crystal Display All Lit Check Mode]

Procedure:

1. Set to standby state.
2. Press three buttons of ■ (TAPE), ■ (CD), and FUNCTION simultaneously.
3. Liquid crystal display are all turned on.
4. To exit from this mode, press the I/⏻ button to turn the power OFF.

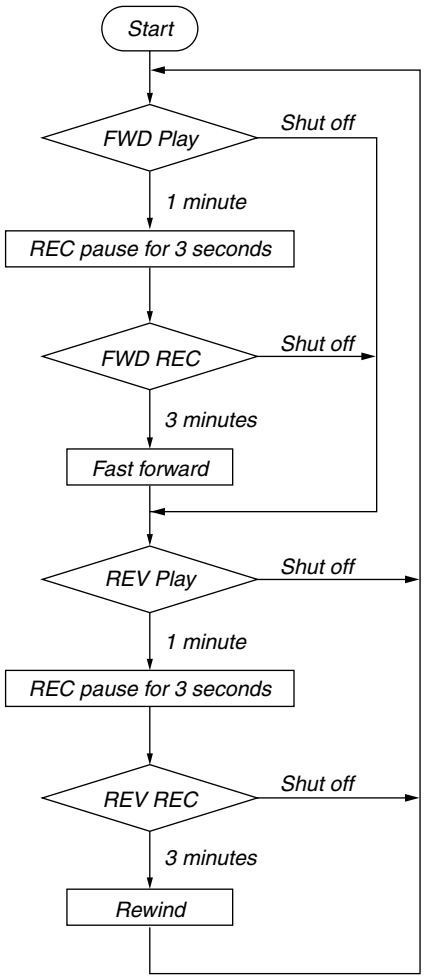
[Tape Deck Aging Mode]

This mode can be used for operation check of tape deck section.

Procedure:

1. Set a tape in the tape deck.
2. Set to standby state.
3. Press three buttons of ■ (TAPE), ■ (CD), and + (TUNING) simultaneously.
4. The aging is executed in bellow sequence.
5. To exit from the aging mode, press the I/⏻ button to turn the power OFF.

Aging mode sequence:



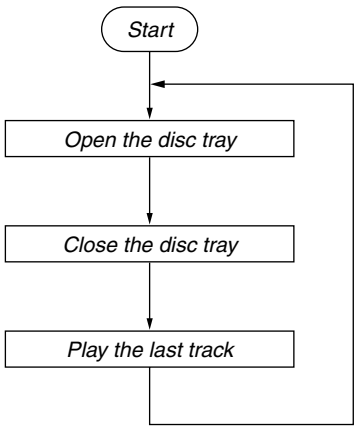
[CD Aging Mode]

This mode can be used for operation check of CD section.

Procedure:

1. Load a CD disc.
2. Set to standby state.
3. Press three buttons of ■ (TAPE), ■ (CD), and − (TUNING) simultaneously.
4. The aging is executed in bellow sequence.
5. To exit from the aging mode, press the I/⏻ button to turn the power OFF.

Aging mode sequence:



SECTION 5
ELECTRICAL ADJUSTMENT

DECK SECTION | 0 dB=0.775 V

Note: Confirm each contents of this section first of all. If the results are not satisfied, do the adjustment.

1. Demagnetize the record/playback head with a head demagnetizer.
2. Do not use a magnetized screwdriver for the adjustments.
3. After the adjustments, apply suitable locking compound to the parts adjust.
4. The adjustments should be performed with the rated power supply voltage unless otherwise noted.
5. The adjustments should be performed in the order given in this service manual. (As a general rule, playback circuit adjustment should be completed before performing recording circuit adjustment.)
6. The adjustments should be performed for both L-CH and R-CH.
7. Switches and controls should be set as follows unless otherwise specified.

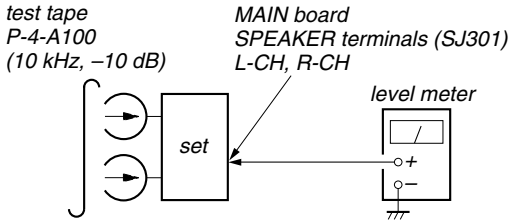
• Test Tape

Tape	Signal	Used for
P-4-A100	10 kHz, –10 dB	Azimuth Adjustment

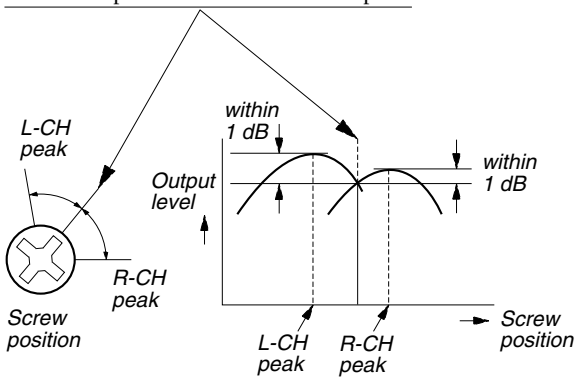
Record/Playback Head Azimuth Adjustment

Procedure:

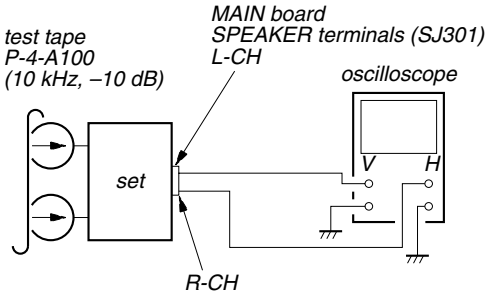
1. Mode: Playback

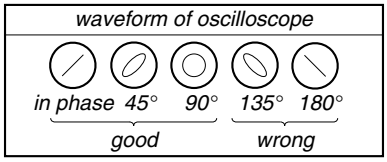


2. Turn the adjustment screw and check output peaks. If the peaks do not match for L-CH and R-CH, turn the adjustment screw so that outputs match within 1dB of peak.



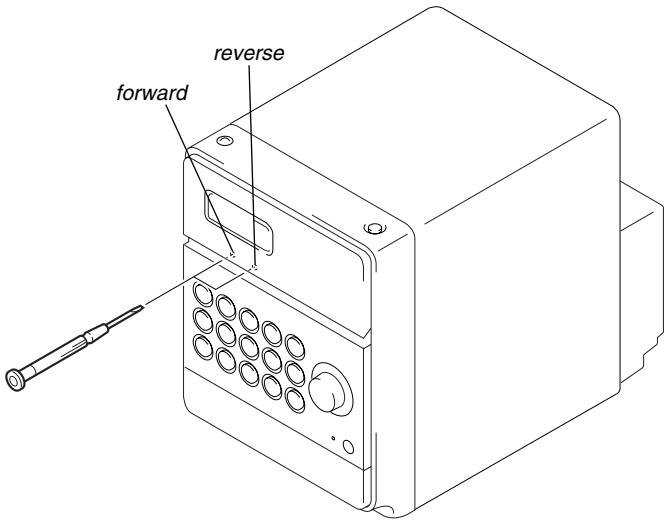
3. Mode: Playback





4. Repeat step 1 to 3 in playback (REV) mode.
5. After the adjustments, apply suitable locking compound to the pats adjusted.

Adjustment Location:

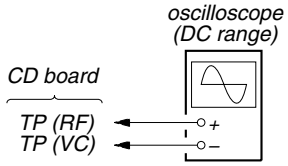


CD SECTION

Note:

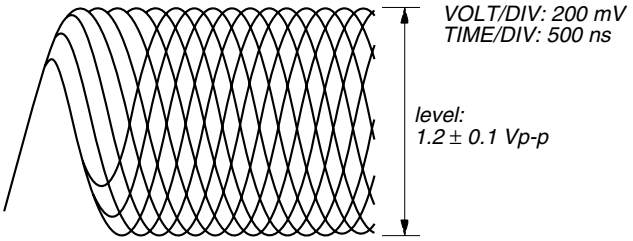
1. CD Block is basically constructed to operate without adjustment.
2. Use YEDS-18 disc (3-702-101-01) unless otherwise indicated.
3. Use an oscilloscope with more than 10 MΩ impedance.
4. Clean the object lens by an applicator with neutral detergent when the signal level is low than specified value with the following checks.
5. Check the focus bias check when optical block is replaced.

Focus Bias Check



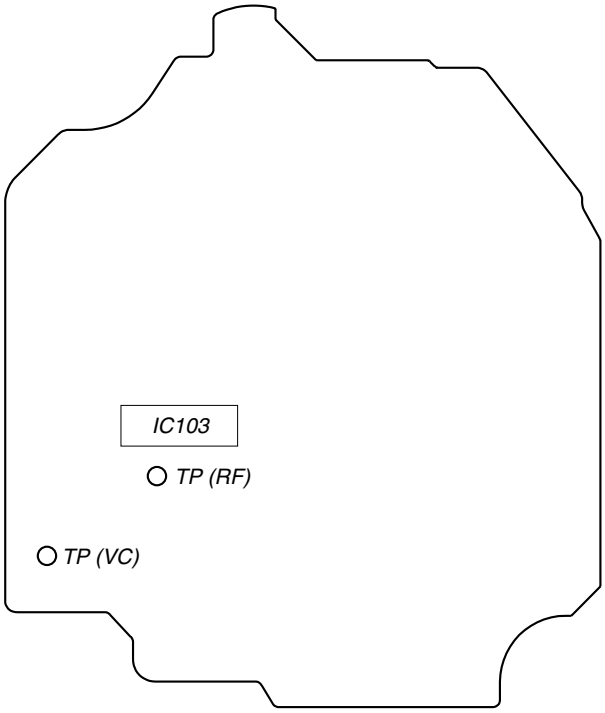
Procedure :

1. Connect oscilloscope to TP (RF) and TP (VC) on the CD board.
2. Press the I/⏻ button to turn the power on, and press the ⏏ (CD) button to open the CD disc tray.
3. Put disc (YEDS-18) in and press the ▶II (CD) button to play-back.
4. Confirm that oscilloscope waveform is as shown in the figure below. (eye pattern)
   A good eye pattern means that the diamond shape (◇) in the center of the waveform can be clearly distinguished.



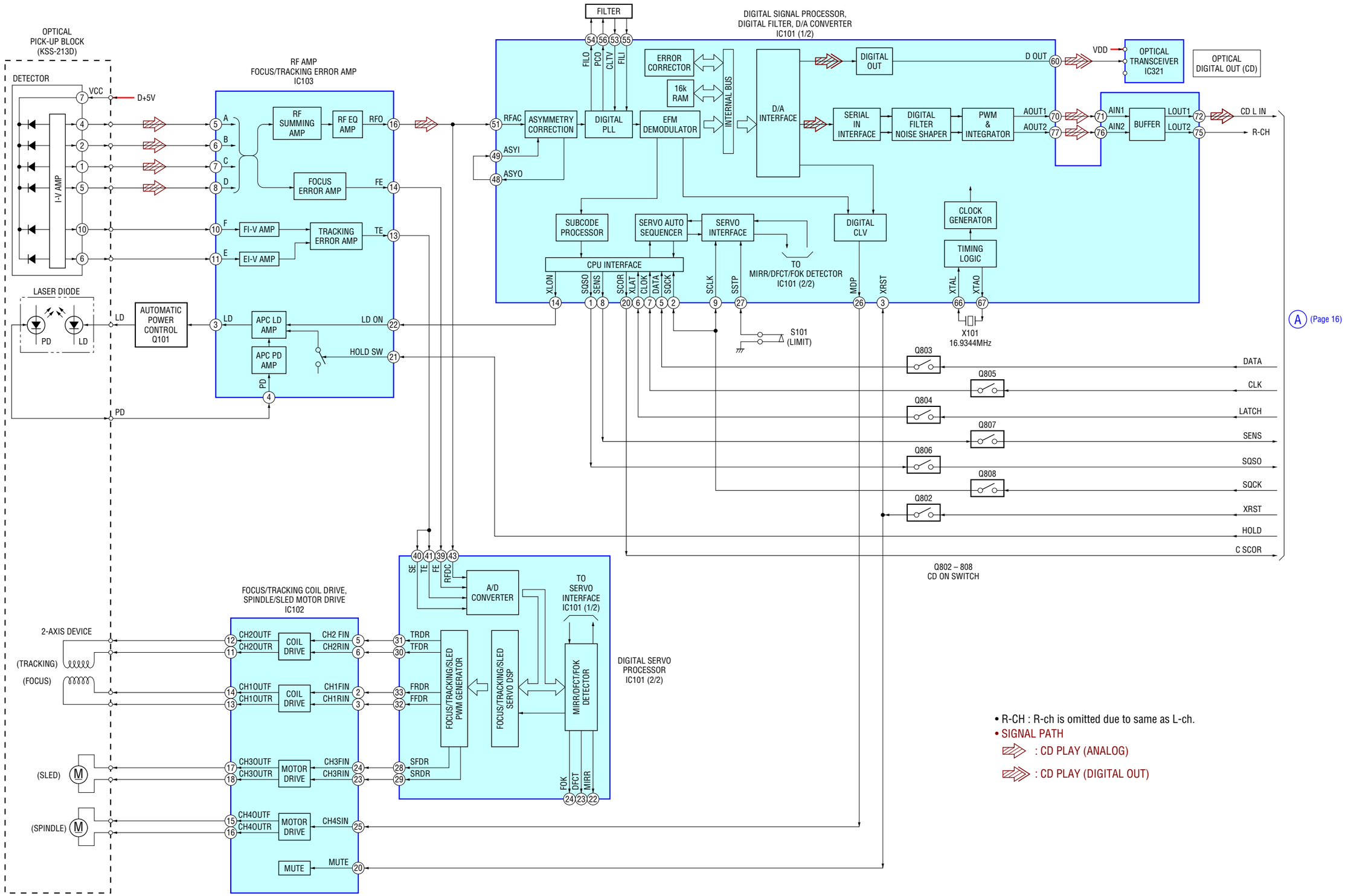
Checking Location:

– CD BOARD (Conductor Side) –



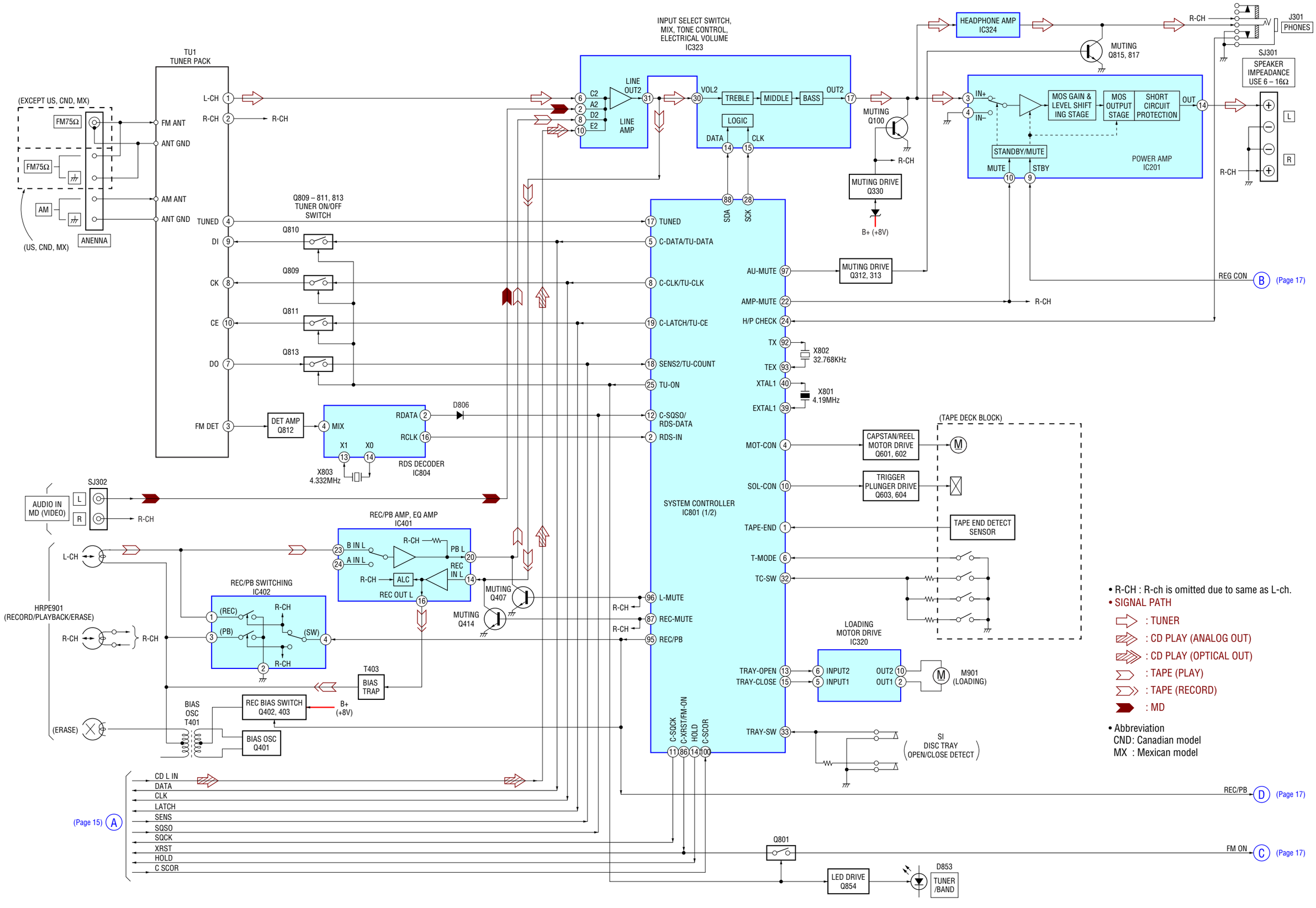
SECTION 6
DIAGRAMS

6-1. BLOCK DIAGRAM – CD SERVO Section –



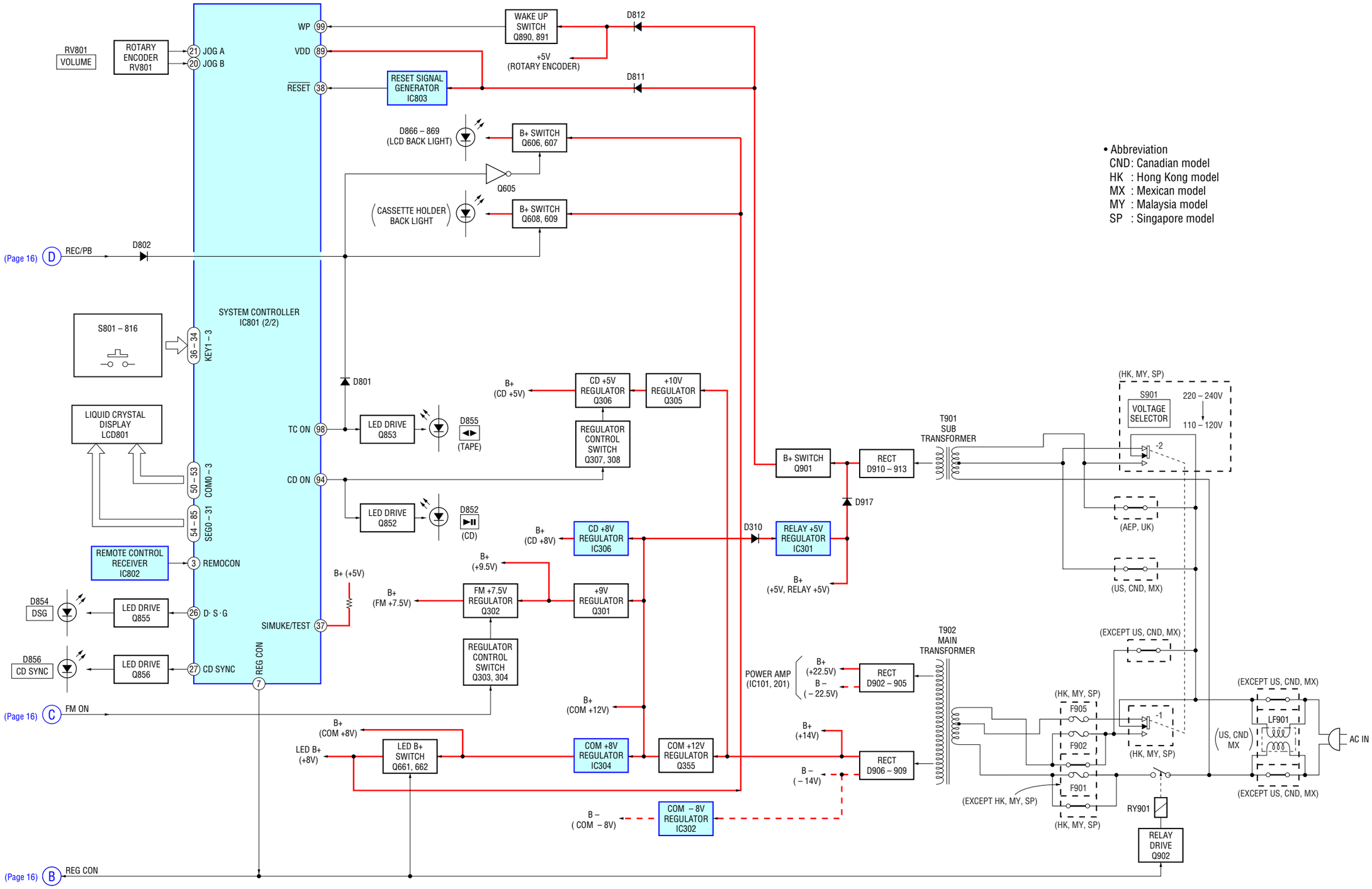
- R-CH : R-ch is omitted due to same as L-ch.
- SIGNAL PATH
  - : CD PLAY (ANALOG)
  - : CD PLAY (DIGITAL OUT)

6-2. BLOCK DIAGRAM – MAIN Section –



- R-CH : R-ch is omitted due to same as L-ch.
- SIGNAL PATH
  - : TUNER
  - : CD PLAY (ANALOG OUT)
  - : CD PLAY (OPTICAL OUT)
  - : TAPE (PLAY)
  - : TAPE (RECORD)
  - : MD
- Abbreviation
  CND: Canadian model
  MX : Mexican model

6-3. BLOCK DIAGRAM – DISPLAY/POWER SUPPLY Section –

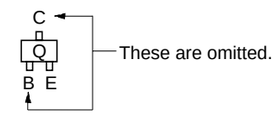


• Abbreviation
CND: Canadian model
HK : Hong Kong model
MX : Mexican model
MY : Malaysia model
SP : Singapore model

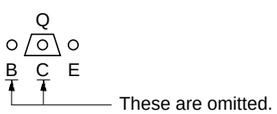
6-4. NOTE FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

Note on Printed Wiring Boards:

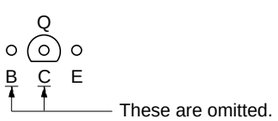
- ○——— : parts extracted from the component side.
- ——— : parts extracted from the conductor side.
- ⊡← : indicates side identified with part number.
- ▬ : Pattern from the side which enables seeing.
- Indication of transistor.



These are omitted.



These are omitted.



These are omitted.

- Abbreviation
  CND : Canadian model
  HK : Hong Kong model
  MX : Mexican model
  MY : Malaysia model
  SP : Singapore model

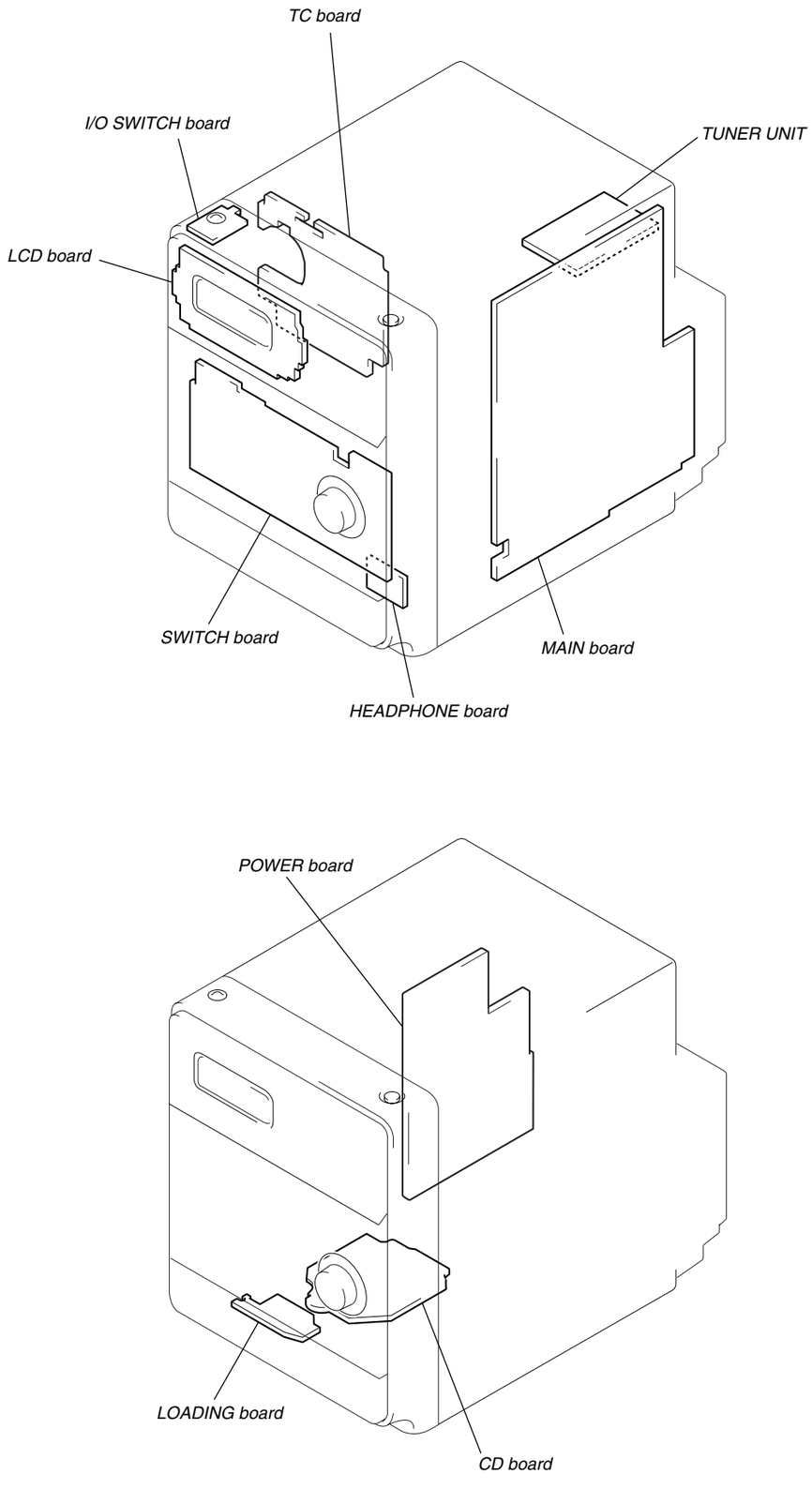
Note on Schematic Diagram:

- All capacitors are in µF unless otherwise noted. pF: µµF
  50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.
- ▭ : panel designation.

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

- ▬ : B+ Line.
- ▬ ▬ : B– Line.
- ▭ : adjustment for repair.
- Voltages are taken with a VOM (Input impedance 10 MΩ).
  Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
  Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : TUNER
  ⇨ : TAPE PLAY (DECK A)
  ⇨ : TAPE PLAY (DECK B)
  ⇨ : TAPE REC
  ⇨ : CD PLAY (ANALOG)
  ⇨ : CD PLAY (DIGITAL)
- Abbreviation
  CND : Canadian model
  HK : Hong Kong model
  MX : Mexican model
  MY : Malaysia model
  SP : Singapore model

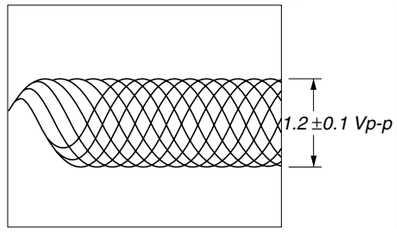
- **Circuit Boards Location**



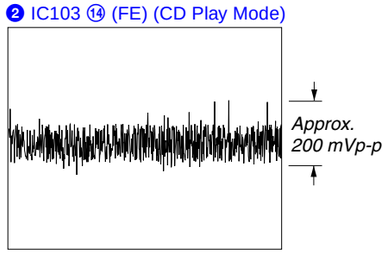
• **Waveforms**

– CD Board –

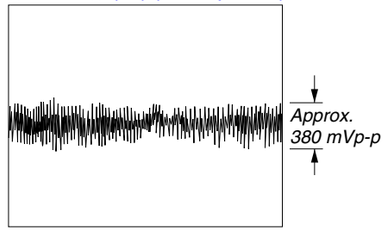
❶ IC103 ⑯ (RFO) (CD Play Mode)



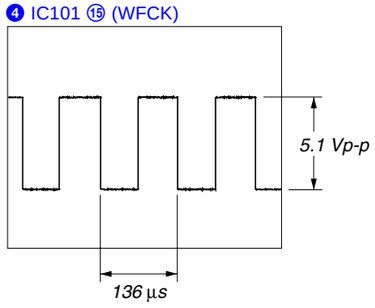
❷ IC103 ⑭ (FE) (CD Play Mode)



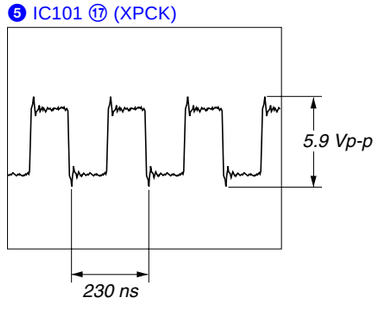
❸ IC103 ⑬ (TE) (CD Play Mode)



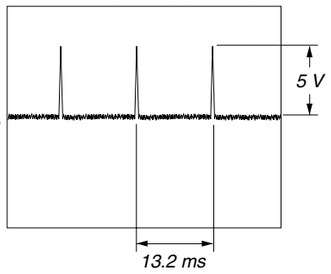
❹ IC101 ⑮ (WFCK)



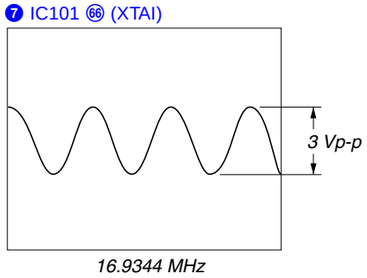
❺ IC101 ⑰ (XPCK)



❻ IC101 ⑳ (SCOR) (CD Play Mode)

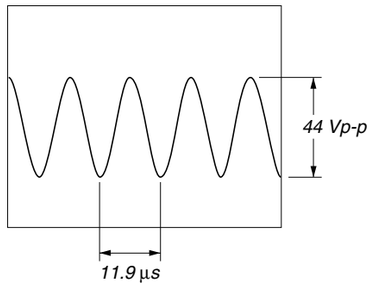


❼ IC101 ⑥⑥ (XTAI)

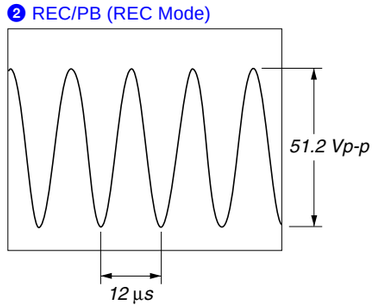


– TC Board –

❶ ERASE Head (REC Mode)

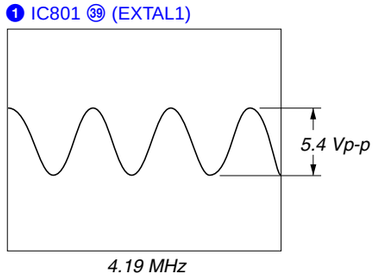


❷ REC/PB (REC Mode)

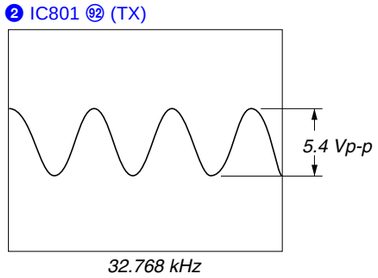


– MAIN Board –

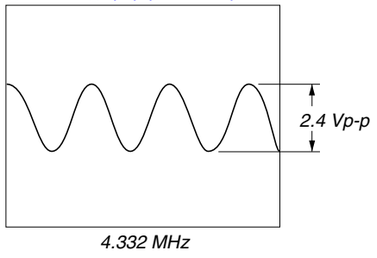
❶ IC801 ㊴ (EXTAL1)



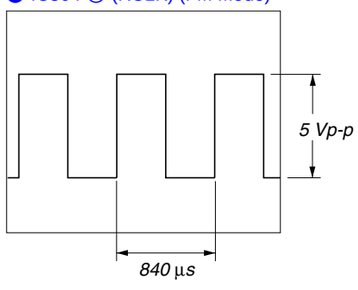
❷ IC801 ㉜ (TX)



❸ IC804 ⑬ (XI) (FM Mode)



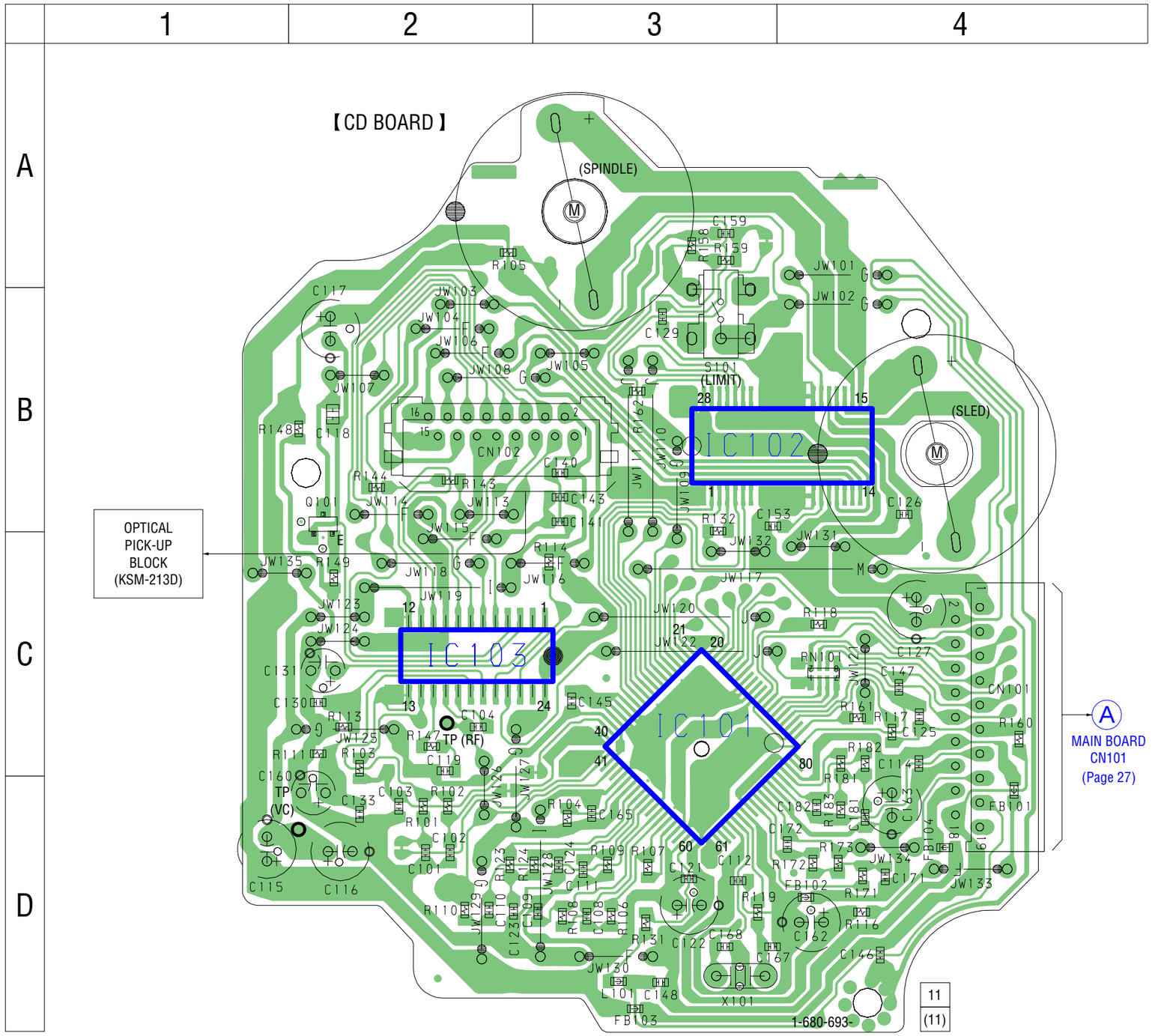
❹ IC804 ⑯ (RCLK) (FM Mode)



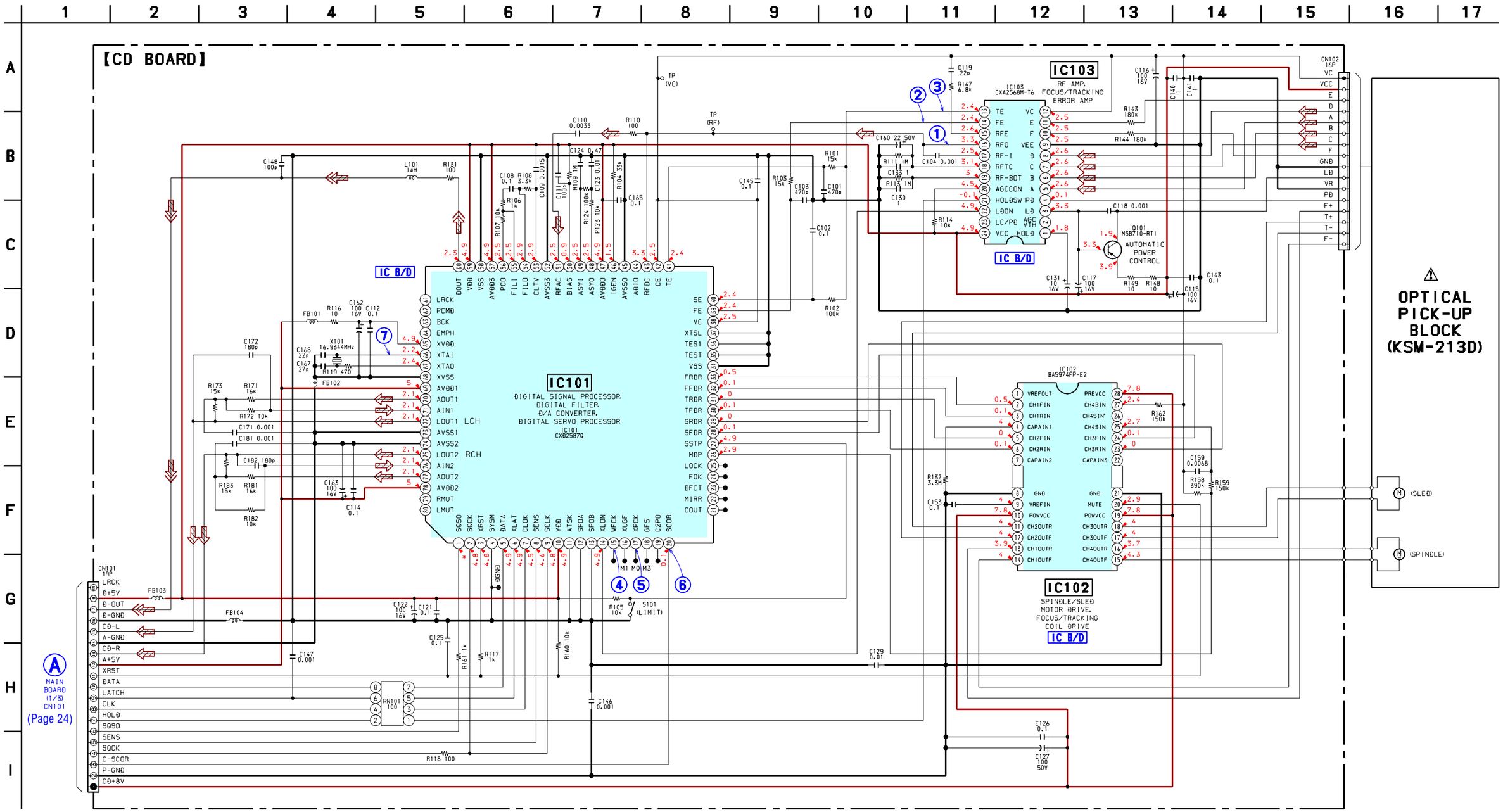
6-5. PRINTED WIRING BOARD – CD Board – • See page 18 for Circuit Boards Location.

- **Semiconductor Location**

Ref. No.	Location
IC101	C-3
IC102	B-3
IC103	C-2
Q101	B-2



6-6. SCHEMATIC DIAGRAM – CD Board – • See page 19 for Waveforms. • See page 33 for IC Block Diagrams.



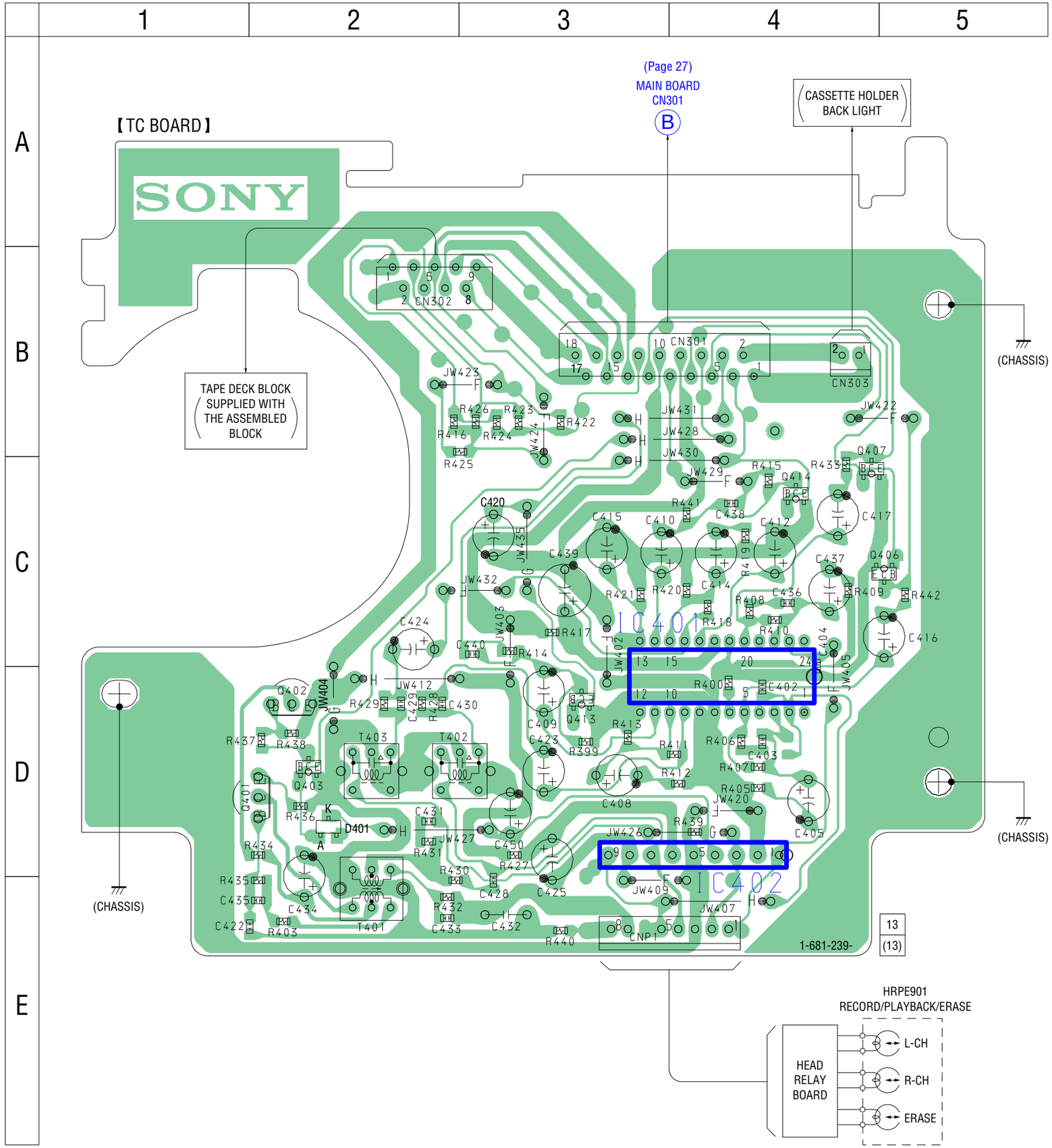
• Voltages and waveforms are dc with respect to ground under no-signal conditions.
no mark : CD PLAY
＊ : Impossible to measure

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

6-7. PRINTED WIRING BOARD – TC Board – • See page 18 for Circuit Boards Location.

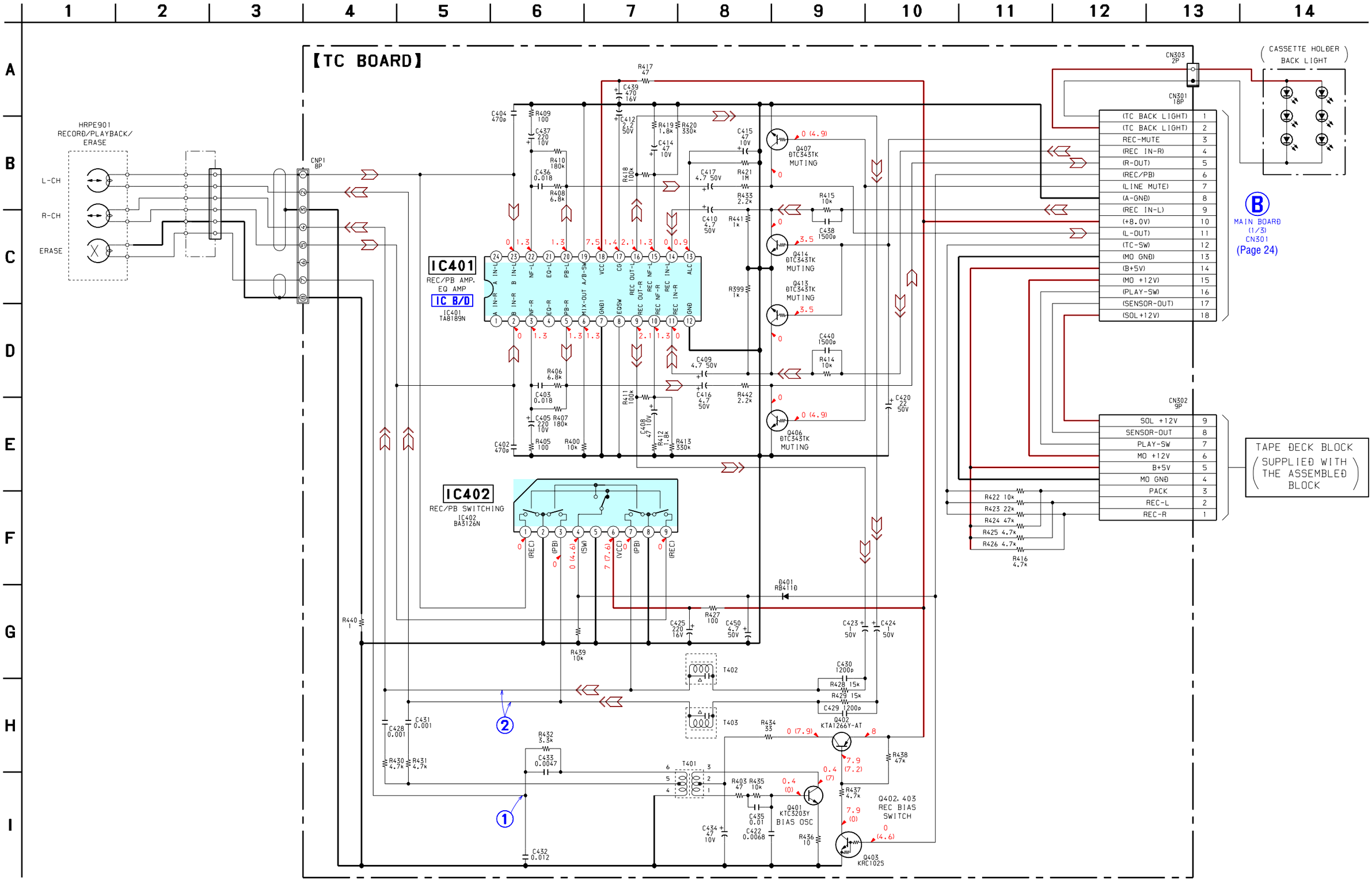
- **Semiconductor Location**

Ref. No.	Location
D401	D-2
IC401	D-4
IC402	D-4
Q401	D-2
Q402	D-2
Q403	D-2
Q406	C-5
Q407	C-4
Q413	D-3
Q414	C-4



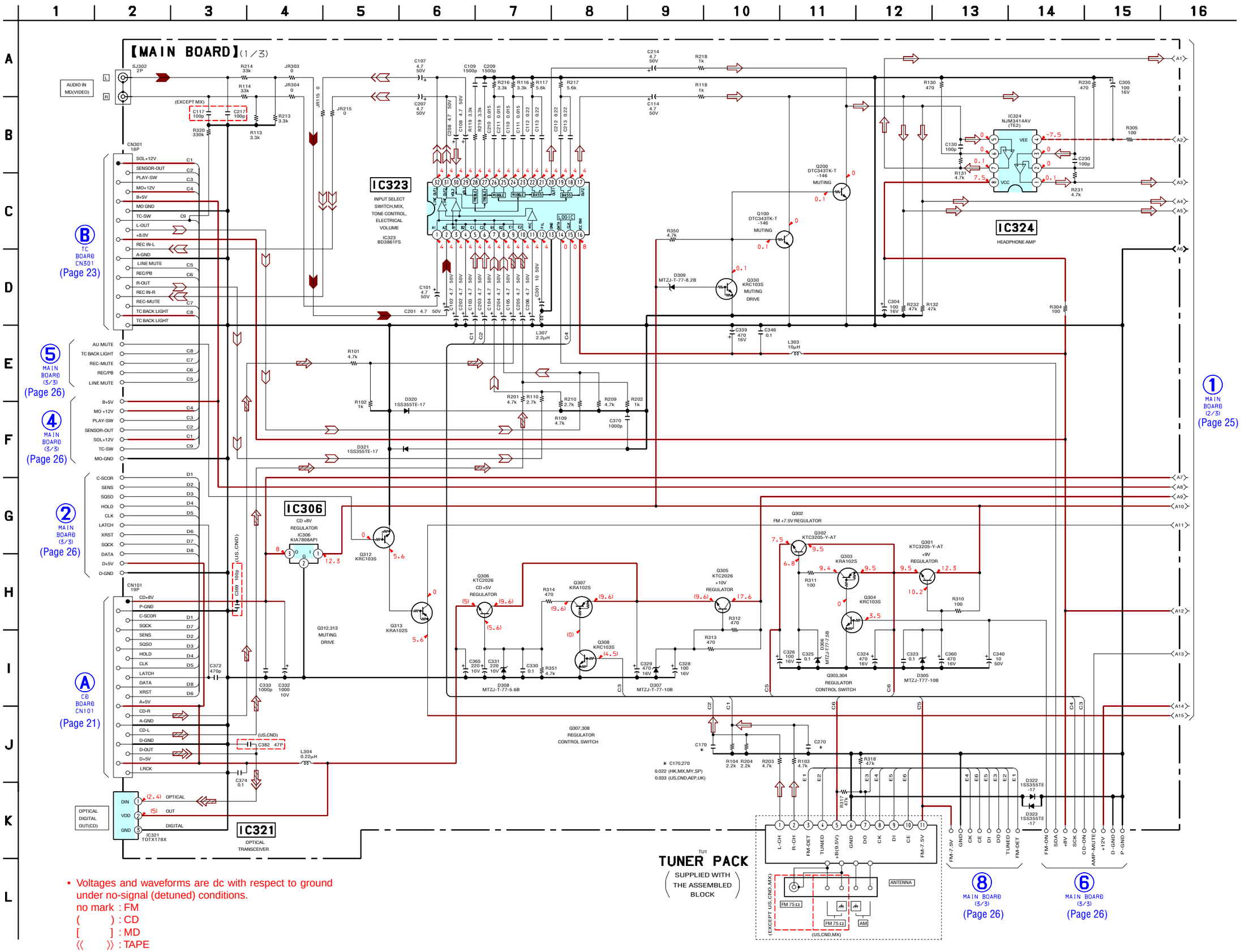
6-8. SCHEMATIC DIAGRAM – TC Board –

• See page 19 for Waveforms. • See page 33 for IC Block Diagram.



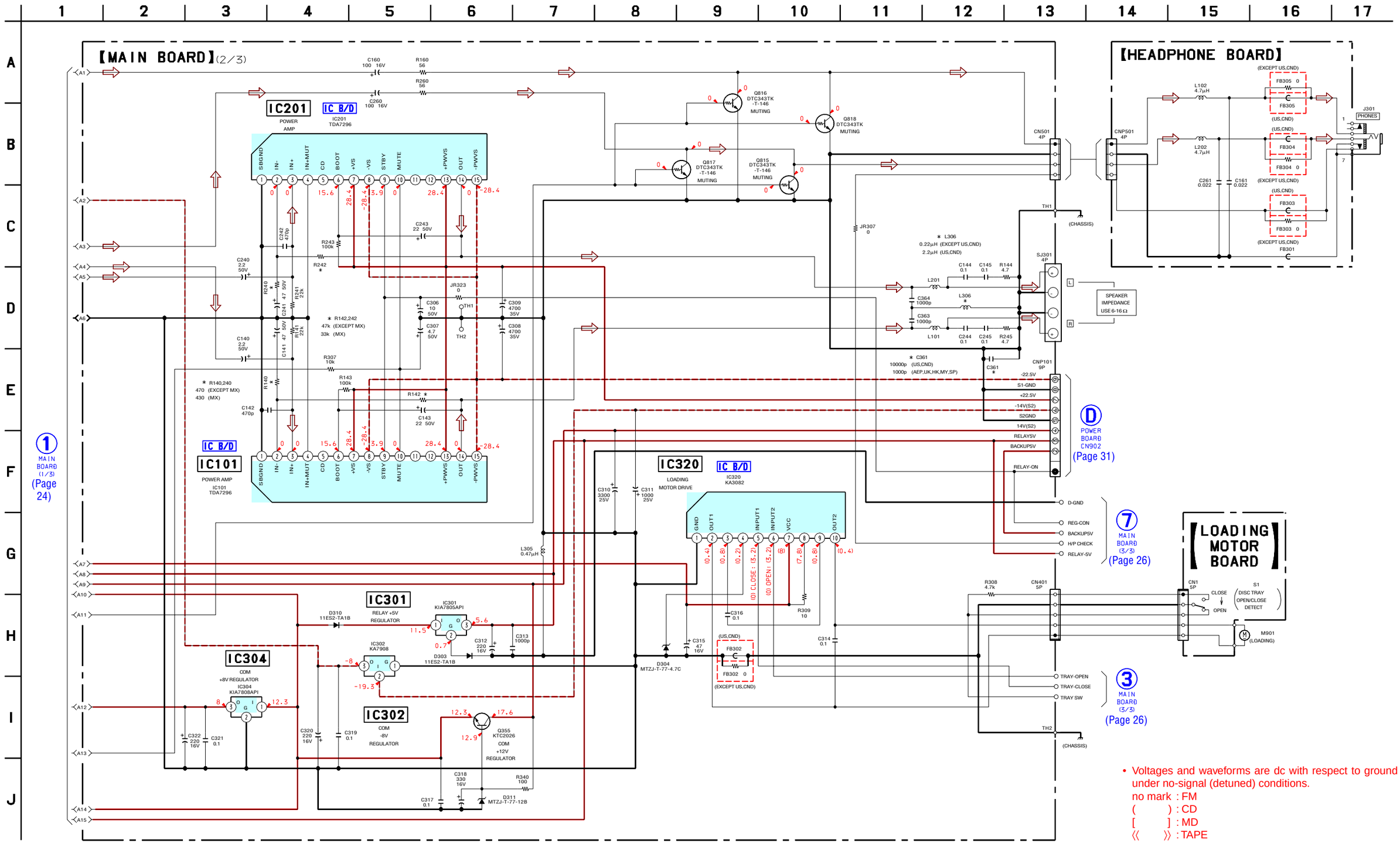
- Voltages and waveforms are dc with respect to ground under no-signal conditions.
  no mark : PB
  ( ) : REC

6-9. SCHEMATIC DIAGRAM – MAIN Board (1/3) –



- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM
  ( ) : CD
  [ ] : MD
  〈〈 〉〉 : TAPE

6-10. SCHEMATIC DIAGRAM – MAIN (2/3)/LOADING MOTOR/HEADPHONE Boards – • See page 33 for IC Block Diagrams.



- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM
  ( ) : CD
  [ ] : MD
  ⟨⟨ ⟩⟩ : TAPE

6-11. SCHEMATIC DIAGRAM – MAIN (3/3)/LCD Boards –

• See page 19 for Waveforms. • See page 33 for IC Block Diagram.

- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM
  ( ) : CD
  [ ] : MD
  ⟨⟨ ⟩⟩ : TAPE

【LCD BOARD】

【MAIN BOARD】(3/3)

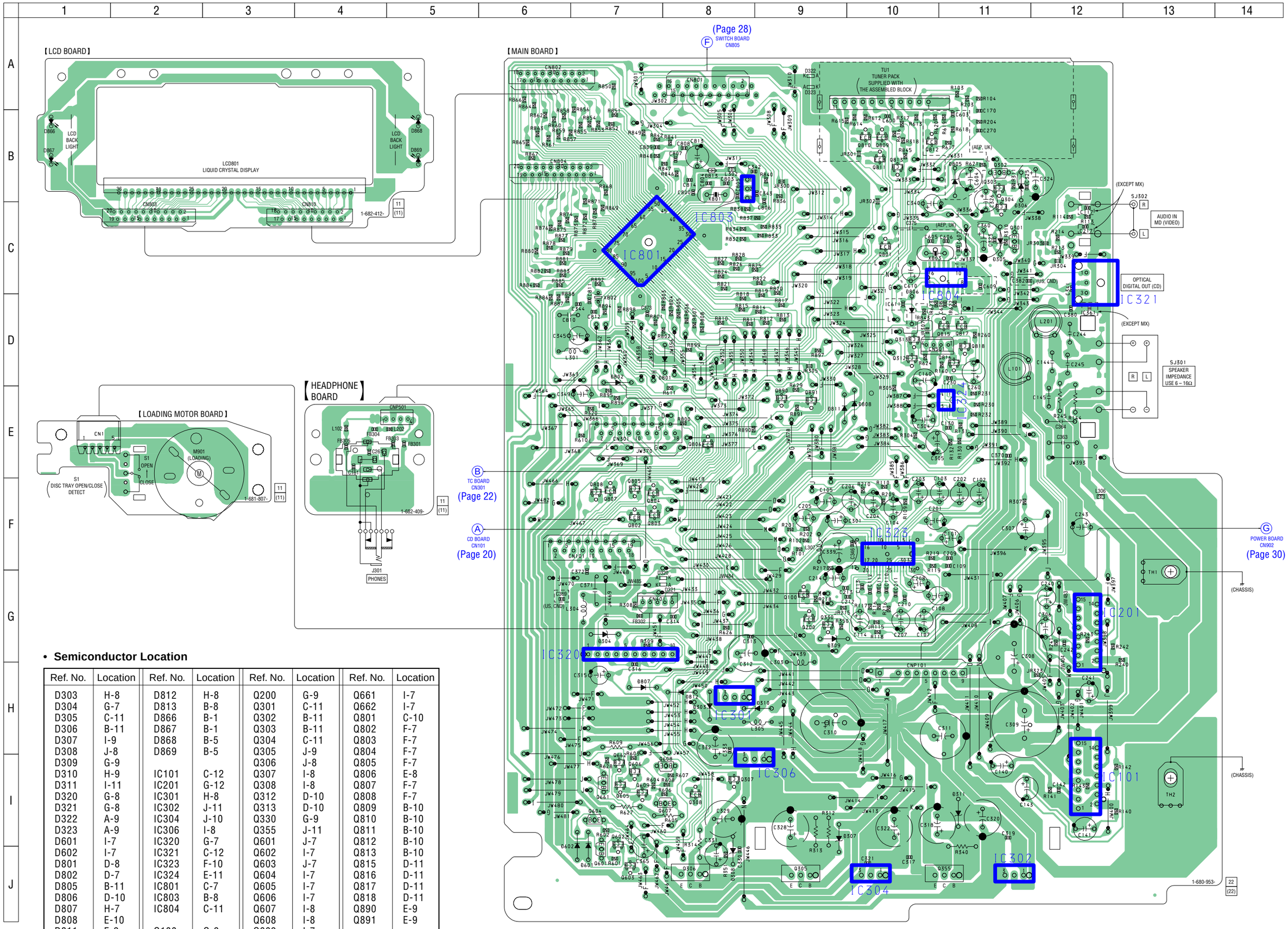
IC801 SYSTEM CONTROLLER
IC801 CXP83124A-050Q

IC804 IC B/D RDS DECODER (AEP, UK)
IC804 BU1924F-E2

IC803 RESET SIGNAL GENERATOR
IC803 BMR-0301H

CASETTE PACK OPEN:(5.5)
CASETTE PACK CLOSE:(0)

⑤ MAIN BOARD (1/3) (Page 24)
⑧ MAIN BOARD (1/3) (Page 24)
② MAIN BOARD (1/3) (Page 24)
Ⓖ SWITCH BOARD CN805 (Page 29)
④ MAIN BOARD (1/3) (Page 24)
⑦ MAIN BOARD (2/3) (Page 25)
⑥ MAIN BOARD (1/3) (Page 24)
③ MAIN BOARD (2/3) (Page 25)

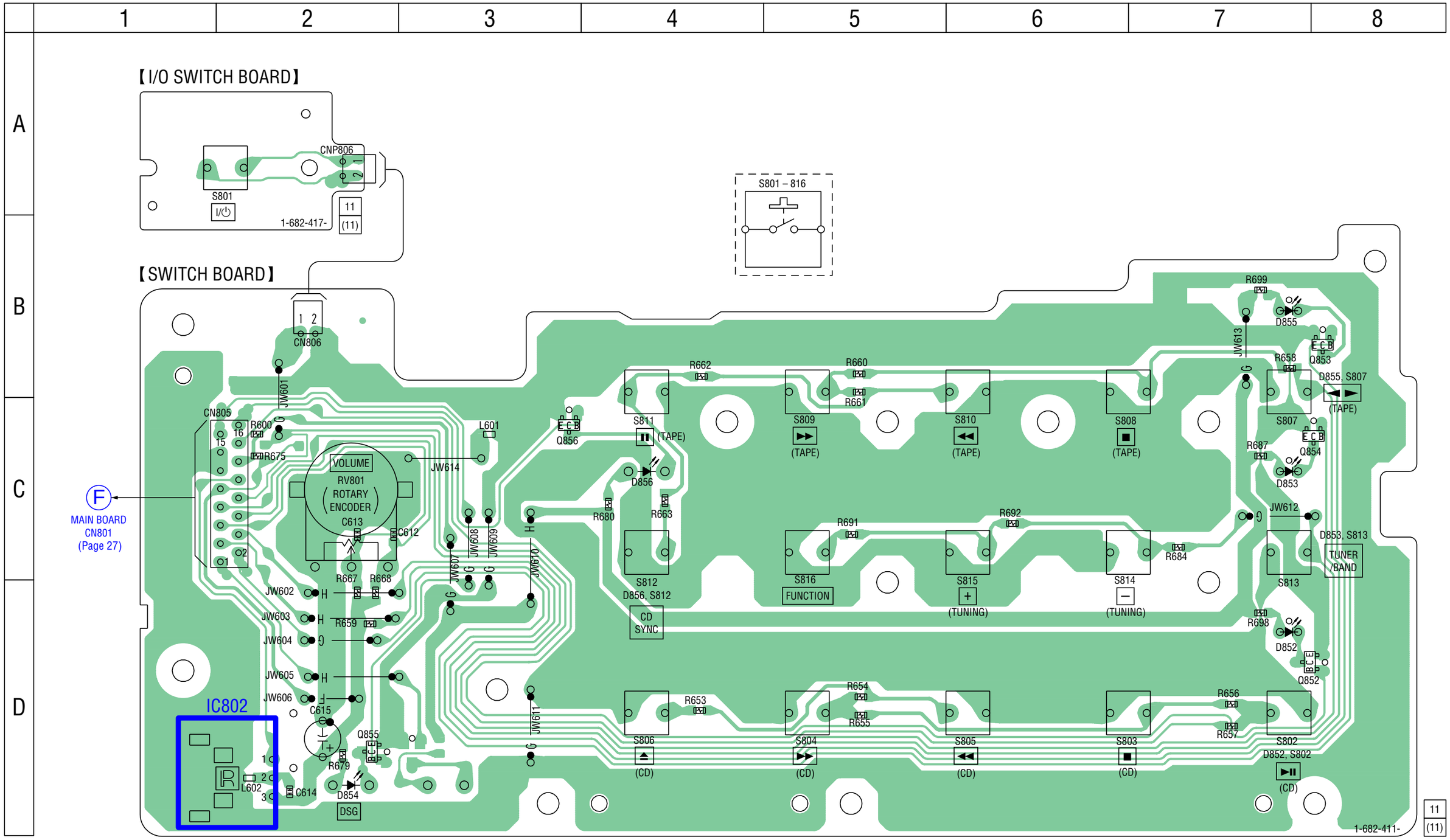


- **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D303	H-8	D812	H-8	Q200	G-9	Q661	I-7
D304	G-7	D813	B-8	Q301	C-11	Q662	I-7
D305	C-11	D866	B-1	Q302	B-11	Q801	C-10
D306	B-11	D867	B-1	Q303	B-11	Q802	F-7
D307	I-9	D868	B-5	Q304	C-11	Q803	F-7
D308	J-8	D869	B-5	Q305	J-9	Q804	F-7
D309	G-9			Q306	J-8	Q805	F-7
D310	H-9	IC101	C-12	Q307	I-8	Q806	E-8
D311	I-11	IC201	G-12	Q308	I-8	Q807	F-7
D320	G-8	IC301	H-8	Q312	D-10	Q808	F-7
D321	G-8	IC302	J-11	Q313	D-10	Q809	B-10
D322	A-9	IC304	J-10	Q330	G-9	Q810	B-10
D323	A-9	IC306	I-8	Q355	J-11	Q811	B-10
D601	I-7	IC320	G-7	Q601	J-7	Q812	B-10
D602	I-7	IC321	C-12	Q602	I-7	Q813	B-10
D801	D-8	IC323	F-10	Q603	J-7	Q815	D-11
D802	D-7	IC324	E-11	Q604	I-7	Q816	D-11
D805	B-11	IC801	C-7	Q605	I-7	Q817	D-11
D806	D-10	IC803	B-8	Q606	I-7	Q818	D-11
D807	H-7	IC804	C-11	Q607	I-8	Q890	E-9
D808	E-10			Q608	I-8	Q891	E-9
D811	E-9	Q100	G-9	Q609	I-7		

6-13. PRINTED WIRING BOARDS – SWITCH/I/O SWITCH Boards –

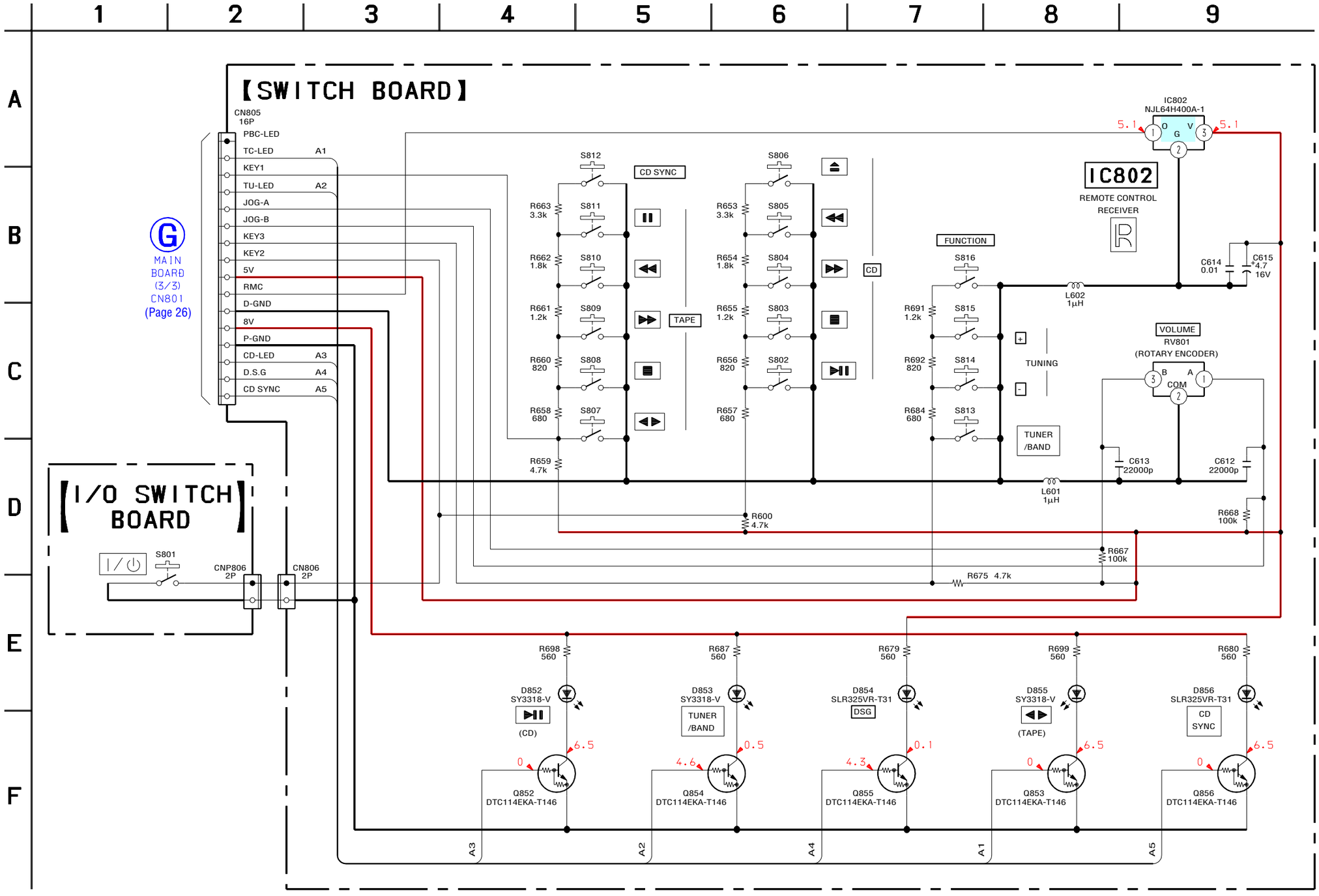
• See page 18 for Circuit Boards Location.



- **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location
D852	D-7	Q852	D-7
D853	C-7	Q853	B-8
D854	D-2	Q854	C-8
D855	B-7	Q855	D-2
D856	C-4	Q856	C-3
IC802	D-2		

6-14. SCHEMATIC DIAGRAM – SWITCH/I/O SWITCH Boards –

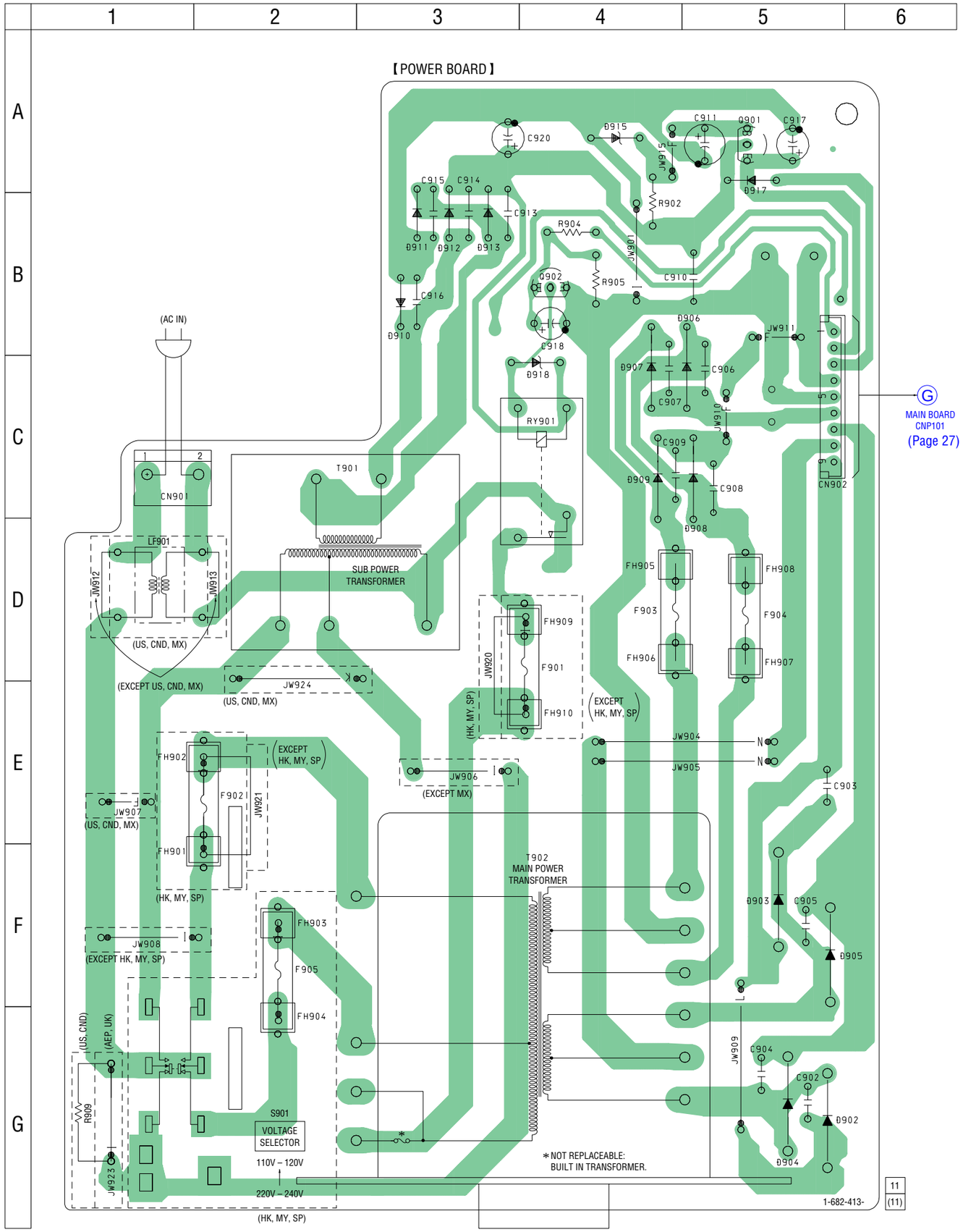


• Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
no mark : FM

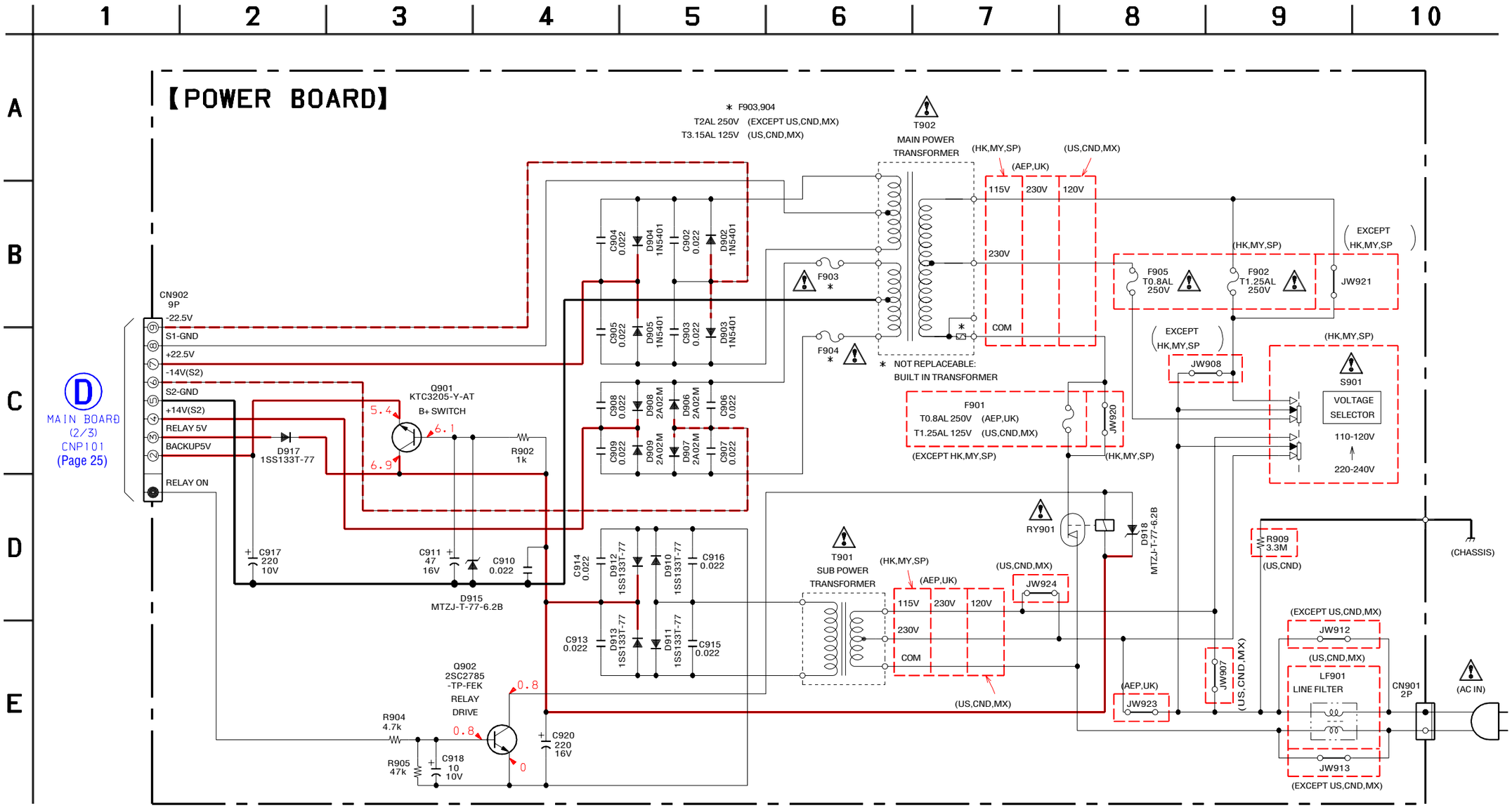
6-15. PRINTED WIRING BOARD – POWER Board – • See page 18 for Circuit Boards Location.

• **Semiconductor Location**

Ref. No.	Location
D902	G-5
D903	F-5
D904	G-5
D905	F-5
D906	C-5
D907	C-4
D908	C-5
D909	C-4
D910	B-3
D911	B-3
D912	B-3
D913	B-3
D915	A-4
D917	A-5
D918	C-4
Q901	A-5
Q902	B-4



6-16. SCHEMATIC DIAGRAM – POWER Board –



The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM

6-17. IC PIN FUNCTION DESCRIPTION

• MAIN BOARD IC801 CXP83124A-050Q (SYSTEM CONTROLLER)

Pin No.	Pin Name	I/O	Description
1	TAPE-END	I	Tape end detect sensor input terminal “H”: input when the tape end detected
2	RDS-IN	I	Serial data reading clock signal input from the RDS decoder (IC804)
3	REMOCON	I	Sircs remote control signal input from the remote control receiver (IC802)
4	MOT-CON	O	Capstan/reel motor on/off control signal output terminal “H”: motor on
5	C-DATA/ TU-DATA	O	Serial data output to the DSP/SSP (IC101) (at CD function) PLL serial data output to the PLL IC (LC72137M) (at tuner function)
6	T-MODE	I	Head position detect switch input terminal “L”: forward direction, “H”: reverse direction
7	REG-CON	O	Main system power supply on/off contorl signal output terminal “H”: power on
8	C-CLK/TU-CLK	O	Serial data transfer clock signal output to the DSP/SSP (IC101) (at CD function) PLL serial data transfer clock signal output to the PLL IC (LC72137M) (at tuner funcion)
9	JOG-C (BASS)	I	Jog dial pulse input from the rotary encoder (C phase input) Not used (fixed at “L”)
10	SOL-CON	O	Trigger plunger on/off control signal output terminal “H”: plunger on
11	C-SQCK	O	Subcode Q data reading clock signal output ti the DSP (IC110) (at CD function)
12	C-SQSO/ RDS-DATA	I	Subcode Q data input from the DSP (IC101) (at CD function) RDS serial data input from the RDS decoder (IC804) (at tuner function)
13	TRAY-OPEN	O	Motor drive siganl output to the disc tray open/close motor driver (IC320) “H”: active *1
14	HOLD	O	Automatic power control hold signal output to the RF Amp (IC103)
15	TRAY-CLOSE	O	Motor drive signal output to the disc tray open/close motor driver (IC309) “H”: active *1
16	JOG-D (BASS)	I	Jog dial pulse input from the rotary encoder (D phase input) Not used (fixed at “L”)
17	TUNED	I	Tuning detection signal input from the LA1837M (IC1) (at tuner function)
18	SENSE2/ TU-COUNT	I	Internal status detection monitor input from the DSP (IC101) (for MIRR, DFCT2, etc.) (at CD function) PLL count data input from the PLL IC (LC72137M) (at tuner function)
19	C-LATCH/ TU-CE	O	Serial data latch pulse output to the DSP (IC101) (at CD function) PLL serial chip enable signal output to the PLL IC (LC72137M) (at tuner function)
20	JOG-B	I	Jog dial pulse input from the rotary encoder (RV801 VOLUME) (B phase input)
21	JOG-A	I	Jog dial pulse input from the rotary encoder (RV801 VOLUME) (A phase input)
22	AMP-MUTE	O	Muting on/off control signal output to the power amplifier (IC101, 201) “H”: muting on
23	JOG-G	I	Jog dial pulse input from the rotary encoder (G phase input) Not used (fixed at “L”)
24	HP-CHK	I	Headphone jack IN/OUT check detection signal input terminal
25	TU-ON	O	Power supply on/off control signal output of the tuner section (FM +7.5V) LED drive signal output of the TUNER/BAND indicator (D853) “H”: tuner power on (LED on)
26	D. S. G.	O	LED drive signal output of the DSG (Dynamic Sound Generator) indicator (D854) “H”: LED on
27	CD-SYNC	O	LED drive signal output of the CD SYNC indicator (D856) “H”: LED on
28	SCK	O	Serial data transfer clock signal output to the BD3861FS (IC323)
29	JOG-E	I	Jog dial pulse input from the rotary encoder (E phase input) Not used (fixed at “L”)

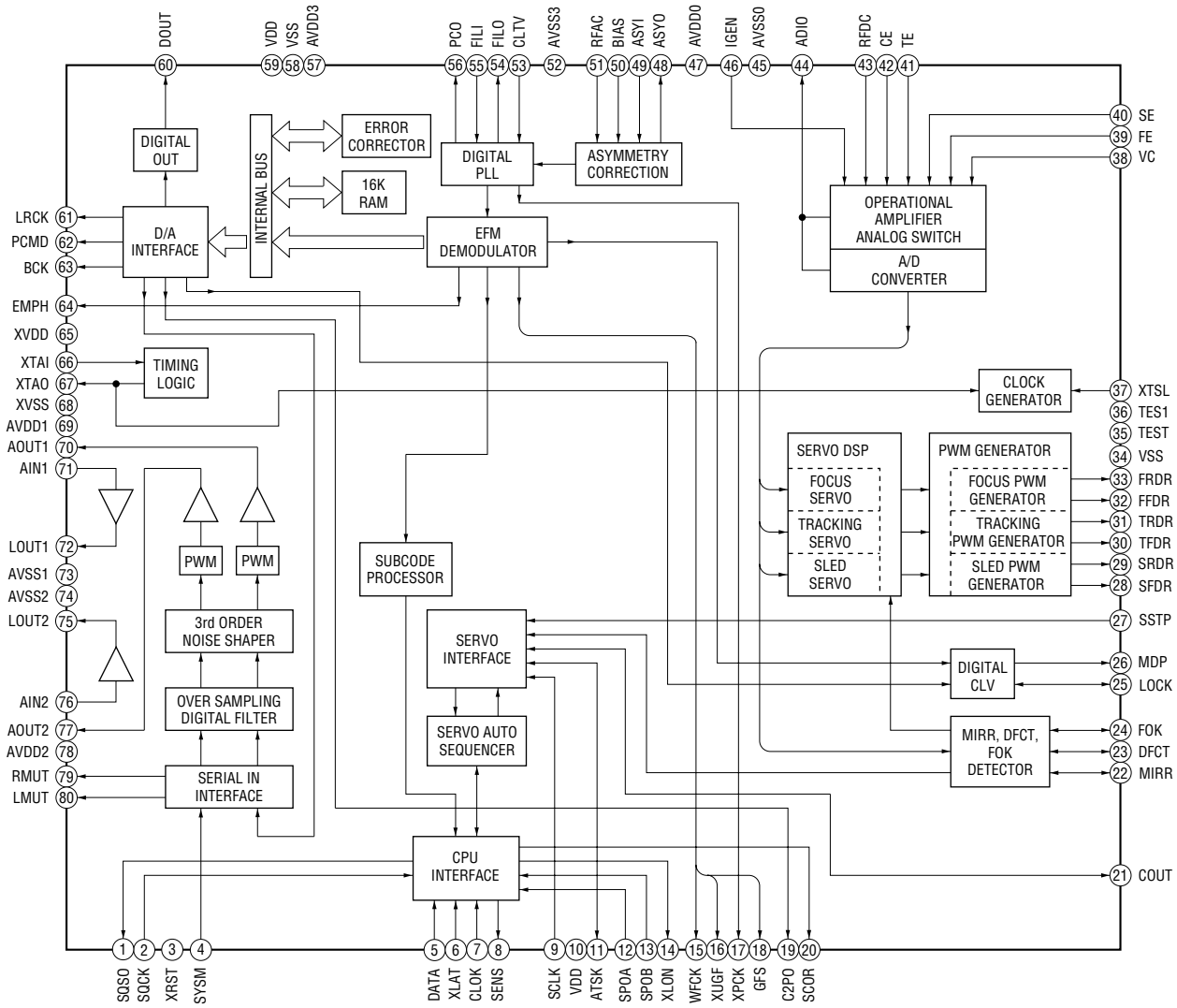
*1 Disc tray open/close motor control

Terminal \ Mode	AUX1	AUX2	USB	CD-C
TRAY-OPEN (pin ⑬)	“L”	“L”	“H”	“H”
AUDIO_SEL2 (pin ⑮)	“L”	“H”	“L”	“H”

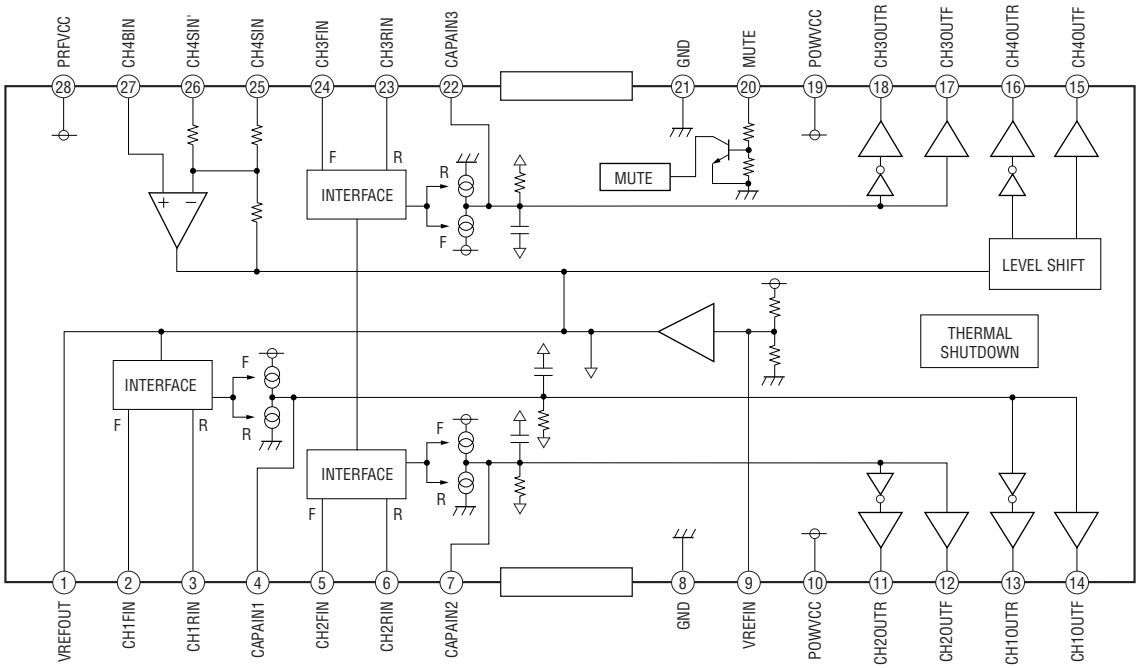
Pin No.	Pin Name	I/O	Description
30	JOG-F	I	Jog dial pulse input from the rotary encoder (F phase input) Not used (fixed at “L”)
31	JOG-H	I	Jog dial pulse input from the rotary encoder (H phase input) Not used (fixed at “L”)
32	TC-SW	I	Half detect (side A and B) switch and cassette in detect switch input terminal (A/D input)
33	TRAY-SW	I	Disc tray position detect switch (S1) input terminal (A/D input) “L”: close position, “M”: open position, “H”: moving
34	KEY3	I	Key input terminal (A/D input) S813 to S816 (TUNER/BAND, TUNING +/-, FUNCTION input)
35	KEY2	I	Key input terminal (A/D input) S801 to S806 (I/⏻, CD ▶II/■/▶▶/◀◀/⏏ keys input)
36	KEY1	I	Key input terminal (A/D input) S807 to S812 (TAPE ◀ ▶/■/▶▶/◀◀/II, CD SYNC keys input)
37	SIMUKE/TEST	I	Destination setting terminal (A/D input)
38	$\overline{\text{RESET}}$	I	System reset signal input from the reset signal generator (IC803) “L”: reset For several hundreds msec. after the power supply rises, “L”: is input, then it changes to “H”
39	EXTAL1	O	Main system clock input terminal (4.19MHz)
40	XTAL1	O	Main system clock output terminal (4.19MHz)
41	VSS	—	Ground terminal
42	XTAL2	O	Sub system clock output terminal (500kHz) Not used (open)
43	EXTAL2	I	Sub system clock input terminal (500kHz) Not used (fixed at “L”)
44	AVREF	I	Reference voltage (+5V) input terminal (for A/D conversion)
45	AVSS	—	Ground terminal (for A/D conversion)
46	VL	O	Liquid crystal display bias on/off control signal output terminal
47 to 49	VLC3 to VLC1	—	Power supply terminal for the liquid crystal display bias
50 to 53	COM0 to COM3	O	Common drive signal output to the liquid crystal display (LCD801)
54 to 85	SEG0 to SEG31	O	Segment drive signal output to the liquid crystal display (LCD801)
86	C-XRST/FM ON	O	Reset signal output to the DSP (IC101) and BA5974FP (IC102) (at CD function) FM power supply ON/OFF control signal output to the tuner section (FM +7.5V (at tuner function)
87	REC-MUTE	O	Recording muting on/off selection signal output to the Tape section “H”: muting on, “L”: muting of
88	SDA	O	Serial data output to the BD861FS (IC323)
89	VDD	—	Power supply terminal (+5V)
90	NC	—	Not used (open)
91	VSS	—	Ground terminal
92	TX	O	Sub system clock output terminal (32.768kHz)
93	TEX	I	Sub system clock input terminal (32.768kHz)
94	CD-ON	O	Power supply on/off control signal output of the CD section (+5V) LED drive signal output of the CD ▶II indicator (D852) “H”: CD power on (LED on)
95	REC/PB	O	Recording/playback selection signal output to the BA3126N (IC402) “L”: playback mode, “H”: recording mode
96	L-MUTE	O	Line muting on/off selection signal output to the Tape section “H”: muting on, “L”: muting off
97	AU-MUTE	O	muting on/off control signal output terminal “H”: muting on
98	TC-ON	O	Power supply on/off control signal output of the cassette holder back light LED drive signal output of the TAPE ◀ ▶ indicator (D855) “H”: back light on (LED on)
99	WP	I	Wakeup control signal input terminal
100	C-SCOR	I	Subcode sync (S0+S1) detection signal input from DSP on the CD section (at CD function)

• **IC Block Diagrams**
– CD Board –

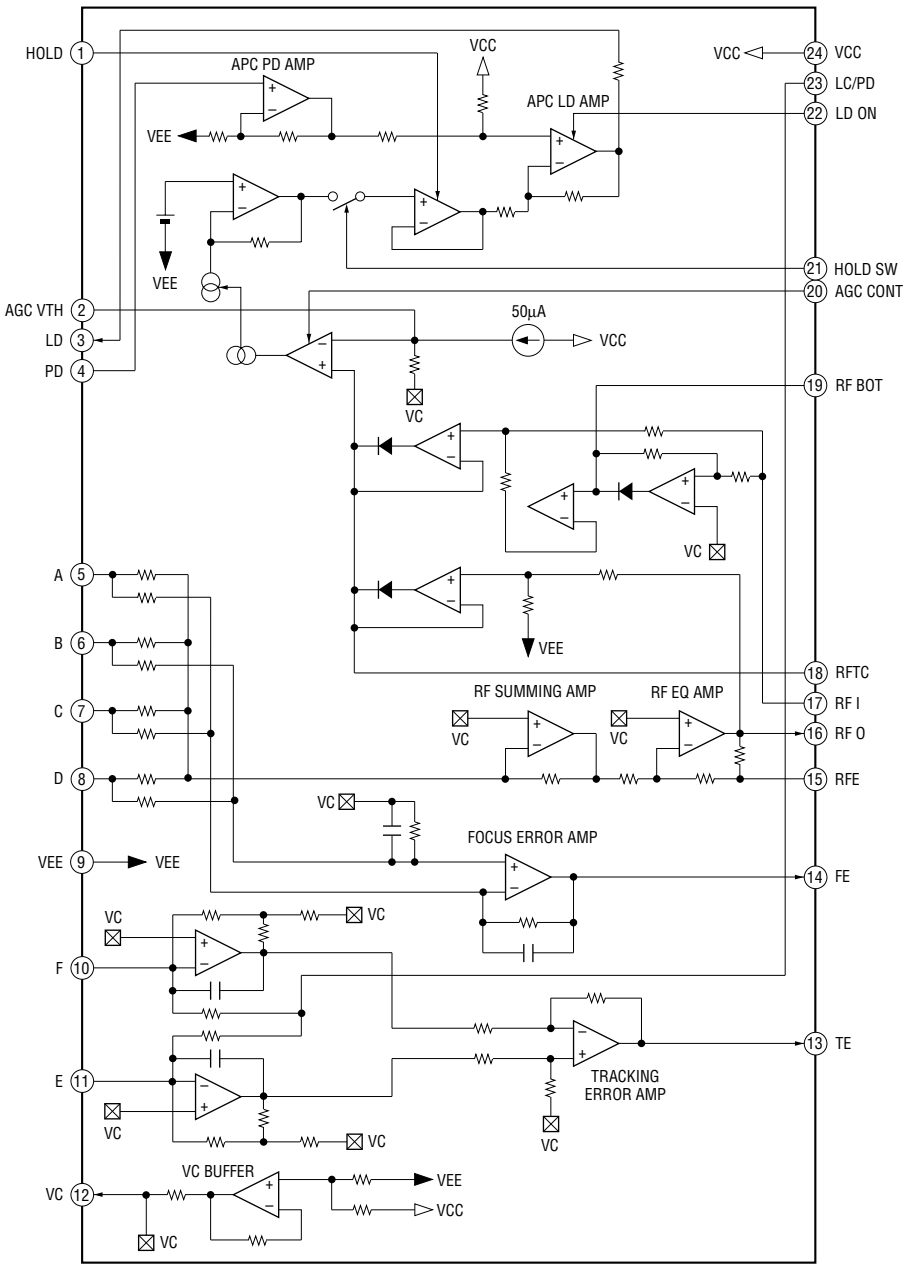
IC101 CXD2587Q



IC102 BA5974FP-E2

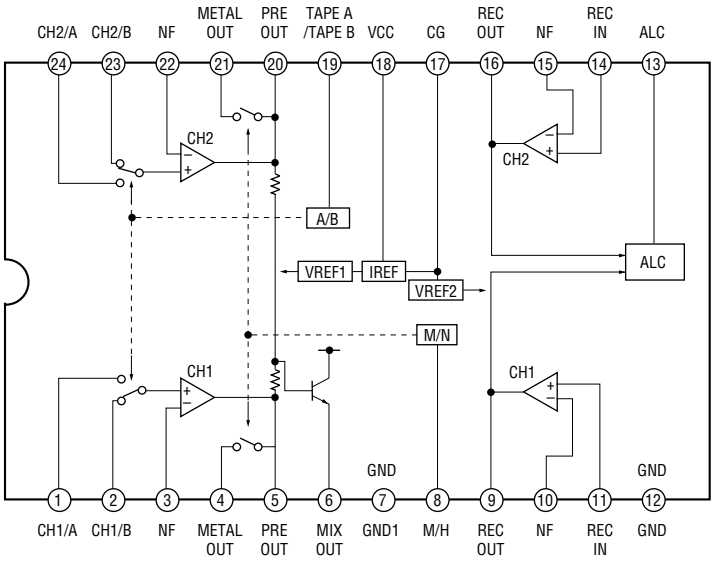


IC103 CXA2568M-T6



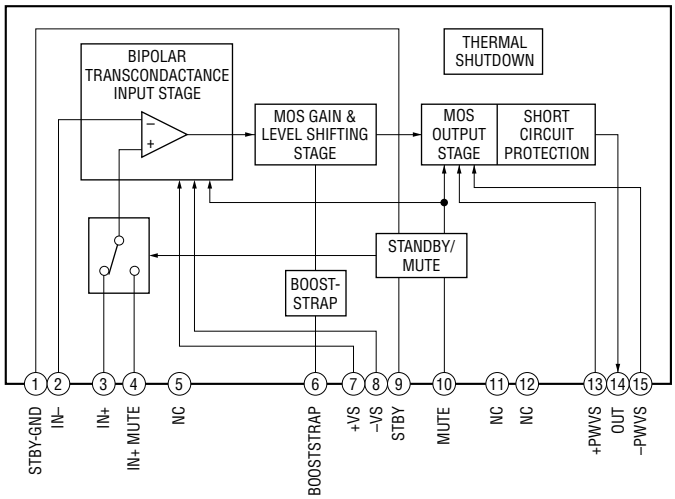
– TC Board –

IC401 TA8189N

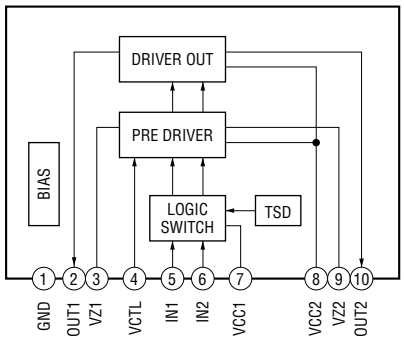


– MAIN Board –

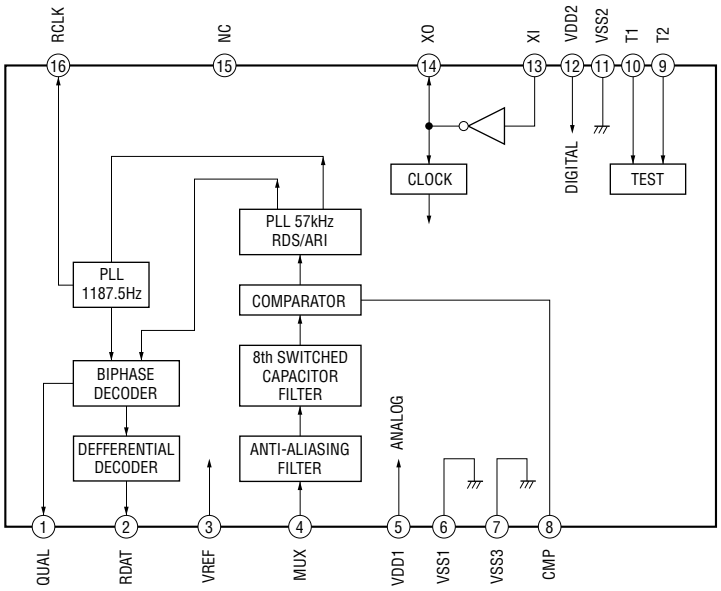
IC101, 201 TDA7296



IC320 KA3082



IC804 BU1924F-E2 (AEP, UK)



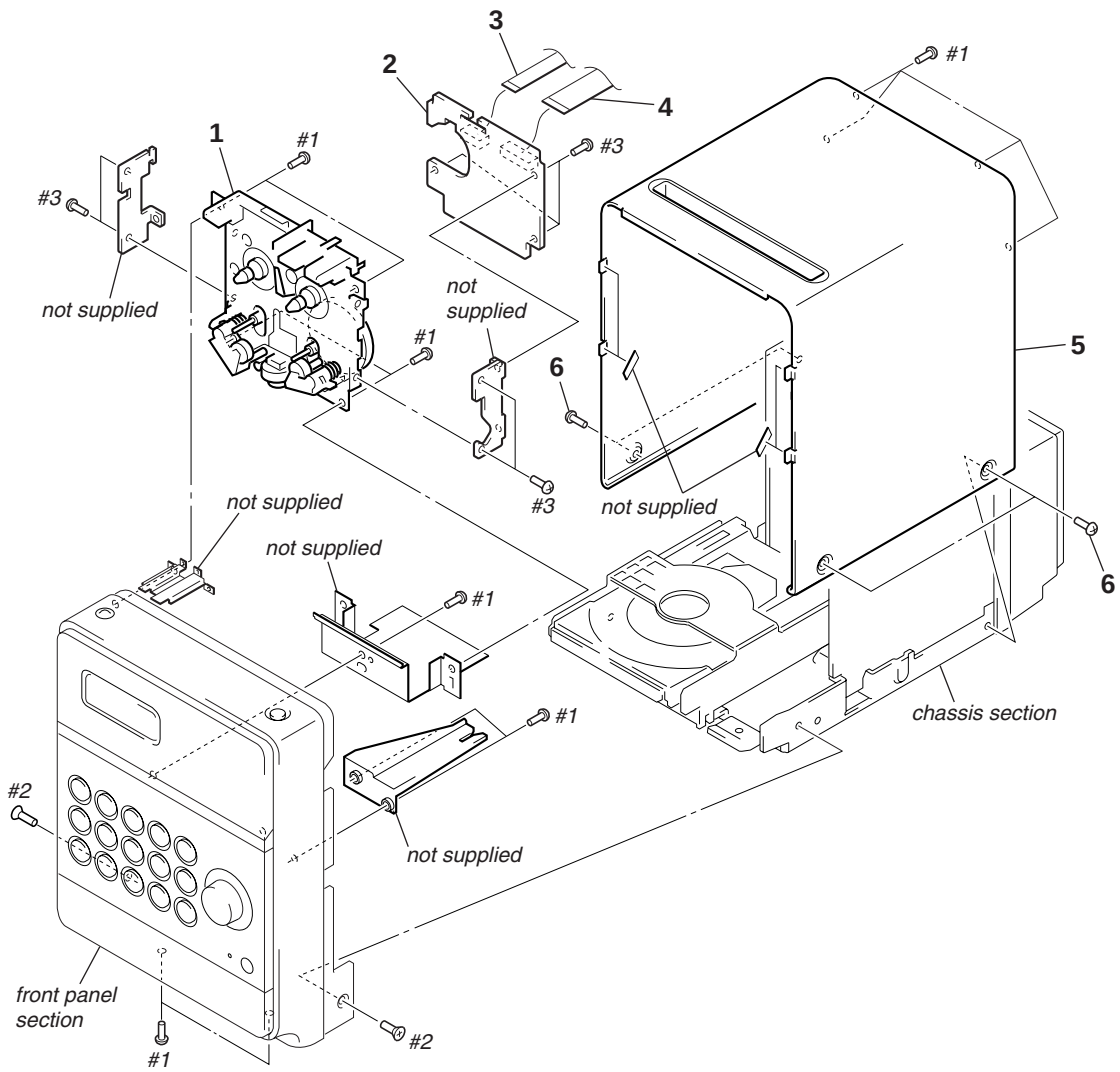
SECTION 7
EXPLODED VIEWS

NOTE:
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example:
  KNOB, BALANCE (WHITE) . . . (RED)
  ↑ ↑
  Parts Color Cabinet's Color
- Abbreviation
  CND : Canadian model
  HK : Hong Kong model
  MX : Mexican model
  MY : Malaysia model
  SP : Singapore model
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of the electrical parts list.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

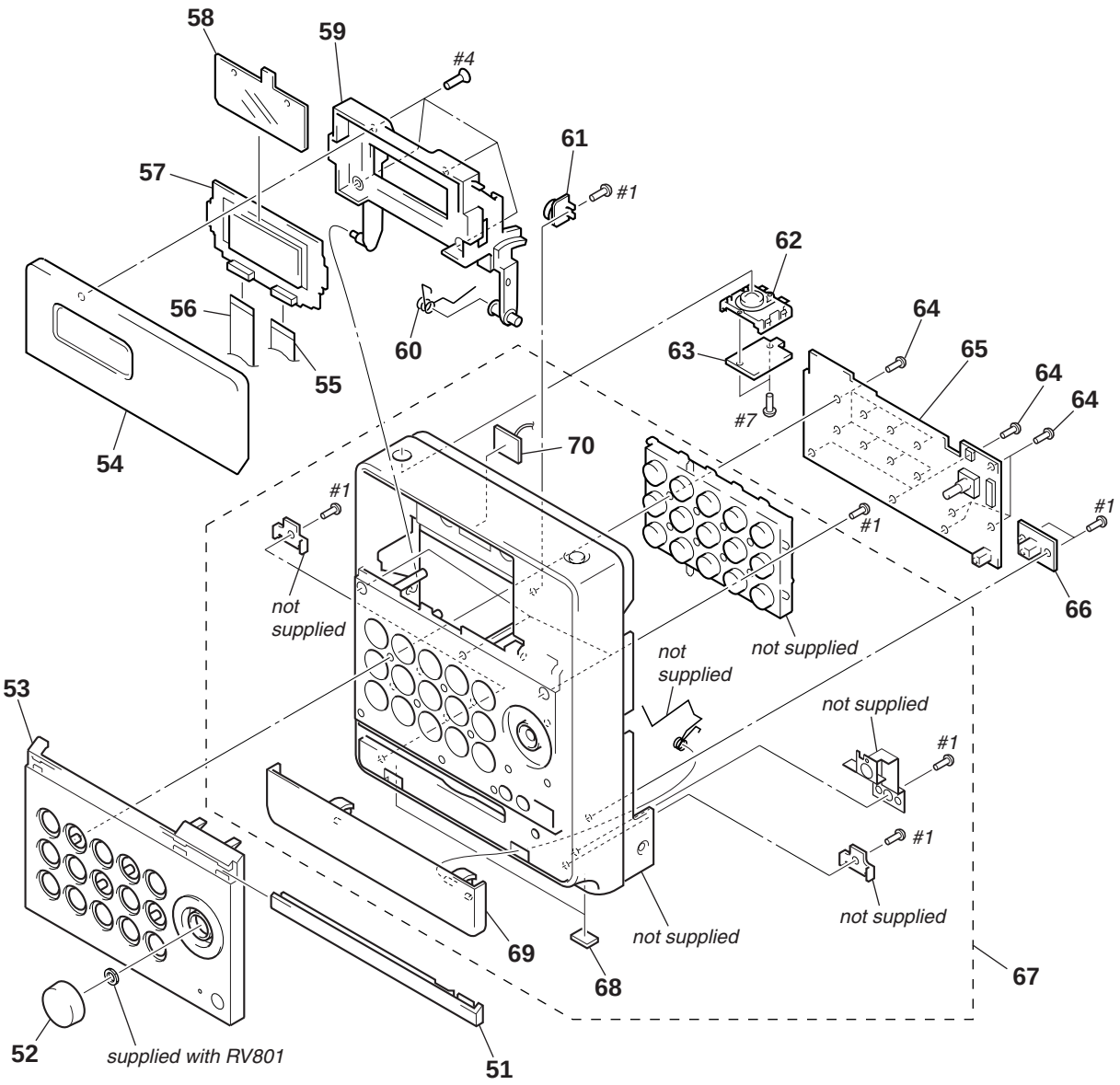
Les composants identifiés par une marque ⚠ sont critiquens pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

7-1. UPPER COVER, TAPE MECH DECK SECTION



Ref. No.	Part No.	Description	Remark
1	1-796-101-12	DECK, MECH (TAPE)	
2	A-4726-690-A	TC BOARD, COMPLETE	
3	1-757-809-11	CABLE, FLEXIBLE FLAT (9 CORE)	
4	1-757-806-11	CABLE, FLEXIBLE FLAT (18 CORE)	
5	X-4954-042-1	COVER SUB ASSY, UPPER (SILVER)	
5	X-4954-077-1	COVER SUB ASSY, UPPER (BLACK)	
5	X-4954-078-1	COVER SUB ASSY, UPPER (RED)	
6	4-221-580-01	SCREW, CASE	

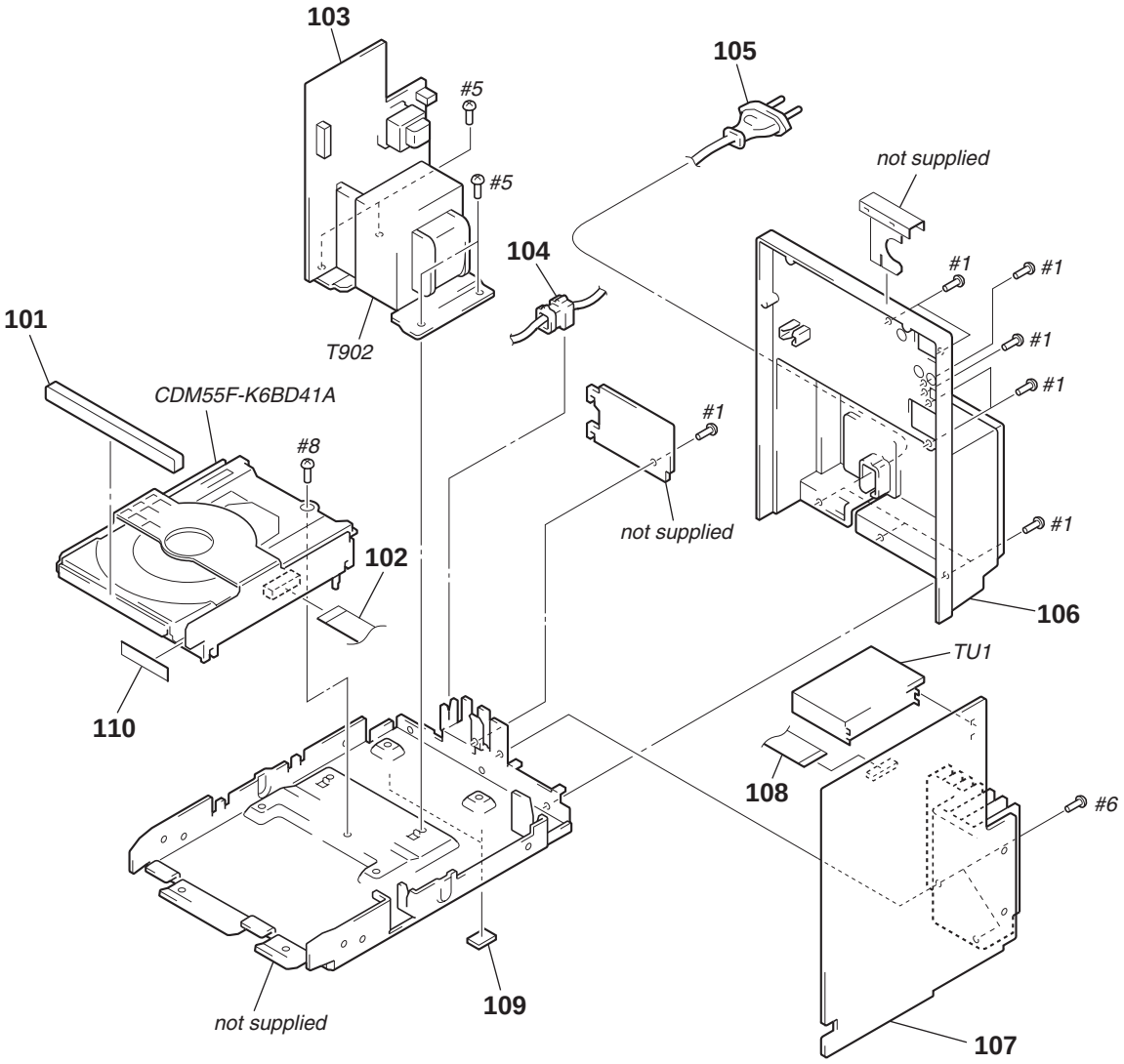
7-2. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark
51	4-236-221-01	AZIMUTH CAP (SILVER)	
52	X-4954-045-1	VOLUME KNOB ASSY	
53	X-4954-041-1	COVER SUB ASSY, FRONT	
54	X-4954-047-1	LID SUB ASSY, CASSETTE (SILVER)	
54	X-4954-093-1	LID SUB ASSY, CASSETTE (BLACK)	
54	X-4954-094-1	LID SUB ASSY, CASSETTE (RED)	
55	1-823-469-11	CABLE, FLEXIBLE FLAT (20 CORE)	
56	1-823-470-11	CABLE, FLEXIBLE FLAT (18 CORE)	
57	1-682-412-11	LCD BOARD	
58	4-217-319-11	PLATE, LCD LIGHT	
59	X-4954-046-1	HOLDER SUB ASSY, CASSETTE	
60	4-236-228-01	SPRING, CASSETTE	
61	3-351-377-11	GEAR, DAMPER	
62	4-236-214-01	BUTTON, POWER (SILVER)	
62	4-236-214-11	BUTTON, POWER (BLACK)	

Ref. No.	Part No.	Description	Remark
62	4-236-214-21	BUTTON, POWER (RED)	
63	1-682-417-11	I/O SWITCH BOARD	
64	4-931-757-31	SCREW (DIA. 2.6X8) (IT3B), TAPPING	
65	A-4726-692-A	SWITCH BOARD, COMPLETE	(AEP, HK, MY, SP, UK)
65	A-4727-418-A	SWITCH BOARD, COMPLETE	(CND, MX, US)
66	1-682-409-11	HEADPHONE BOARD	
67	X-4954-310-1	PANEL SUB ASSY, FRONT (SILVER)	
67	X-4954-311-1	PANEL SUB ASSY, FRONT (BLACK)	
67	X-4954-312-1	PANEL SUB ASSY, FRONT (RED)	
68	4-232-478-01	FOOT	
69	4-236-205-61	CD COVER (SILVER)	
69	4-236-205-71	CD COVER (BLACK)	
69	4-236-205-81	CD COVER (RED)	
70	1-418-693-32	INDICATOR BLOCK, LED	

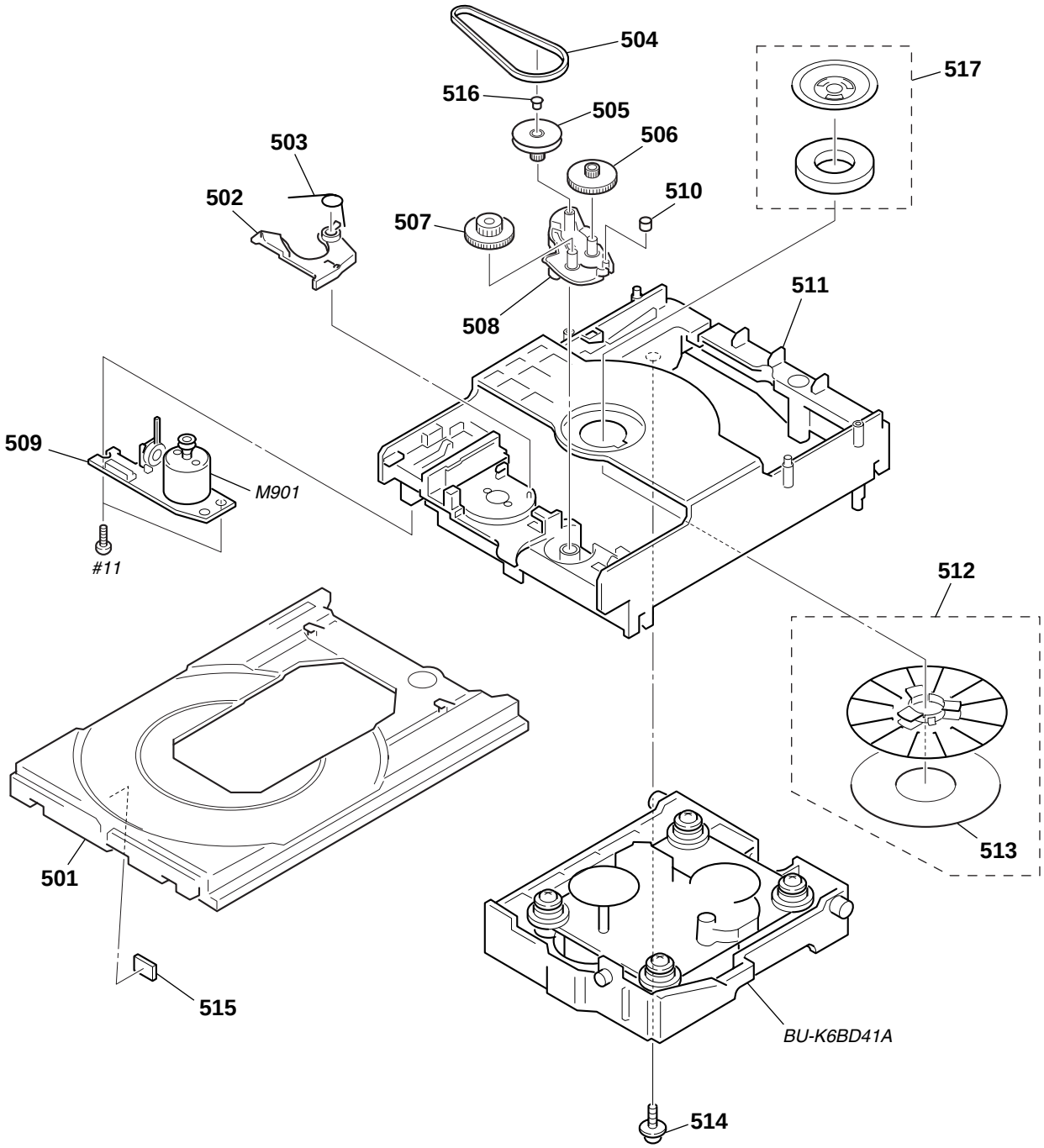
7-3. CHASSIS SECTION



The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

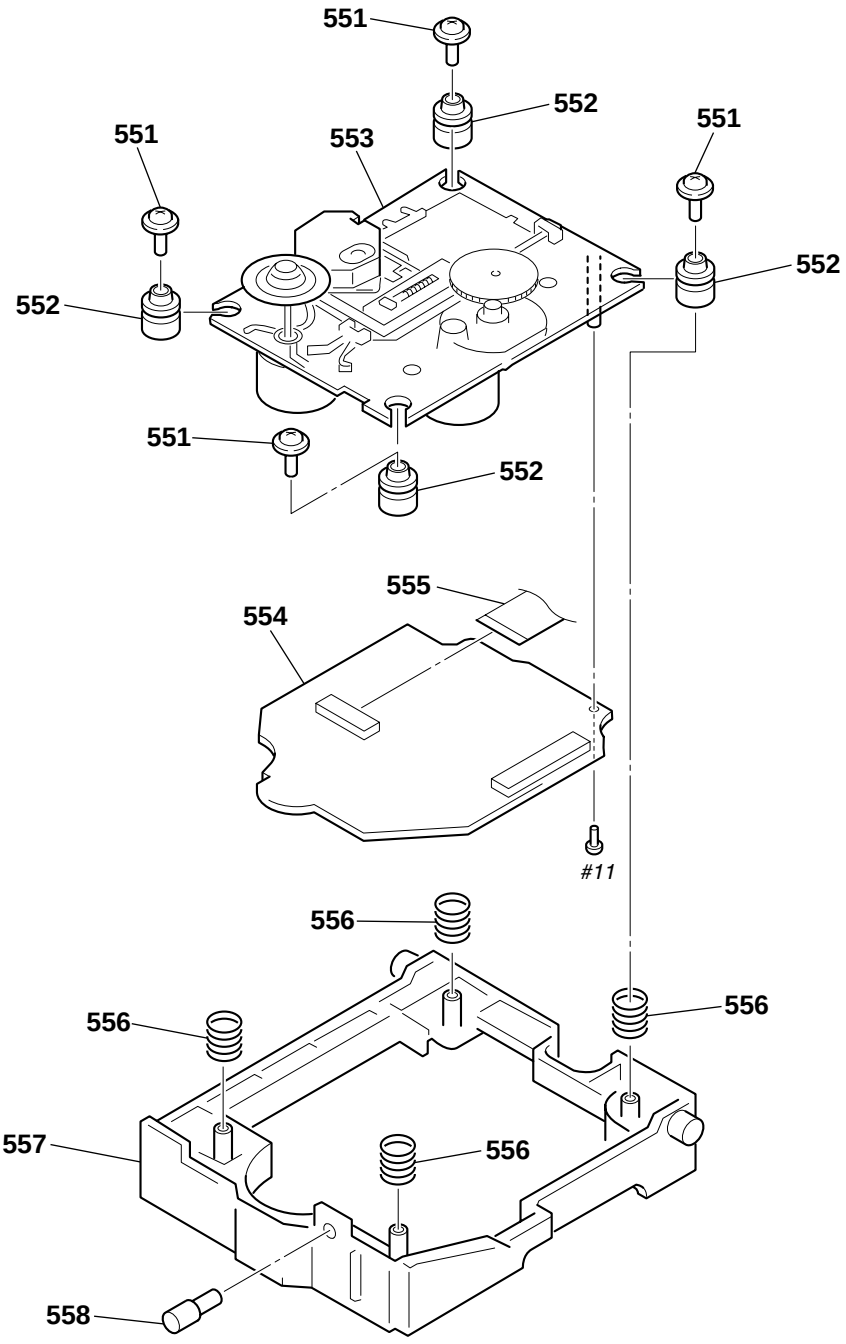
Ref. No.	Part No.	Description	Remark
101	4-236-203-01	LID, CD (SILVER)	
101	4-236-203-11	LID, CD (BLACK)	
101	4-236-203-21	LID, CD (RED)	
102	1-792-411-11	CABLE, FLEXIBLE FLAT (19 CORE)	
103	A-4726-695-A	POWER BOARD, COMPLETE (AEP, UK)	
103	A-4727-416-A	POWER BOARD, COMPLETE (HK, MY, SP)	
103	A-4727-421-A	POWER BOARD, COMPLETE (CND, US)	
103	A-4727-599-A	POWER BOARD, COMPLETE (MX)	
104	4-217-350-11	STOPPER, CORD	
⚠105	1-696-169-11	CORD, POWER (AEP, HK, MY, SP UK)	
⚠105	1-783-532-11	CORD, POWER (CND, US)	
106	4-236-243-01	PANEL, BACK (for BLACK, for SILVER)	(AEP, UK)
106	4-236-243-21	PANEL, BACK (for RED) (AEP, UK)	
106	4-236-243-31	PANEL, BACK (for SILVER) (MY, SP, HK)	
106	4-236-243-41	PANEL, BACK (for BLACK) (SP, HK)	
106	4-236-243-51	PANEL, BACK (for RED) (SP)	
106	4-236-243-61	PANEL, BACK (for SILVER) (CND, MX, US)	
106	4-236-243-71	PANEL, BACK (for BLACK) (CND, MX, US)	
106	4-236-243-81	PANEL, BACK (for RED) (CND, US)	
107	A-4726-691-A	MAIN BOARD, COMPLETE (AEP, UK)	
107	A-4727-415-A	MAIN BOARD, COMPLETE (HK, MY, SP)	
107	A-4727-417-A	MAIN BOARD, COMPLETE (CND, US)	
107	A-4727-598-A	MAIN BOARD, COMPLETE (MX)	
108	1-823-226-11	CABLE, FLEXIBLE FLAT (16 CORE)	
109	4-232-478-01	FOOT	
110	3-831-441-99	CLOTH (6)	
⚠T902	1-437-248-11	TRANSFORMER, POWER (AEP, UK)	
⚠T902	1-437-249-11	TRANSFORMER, POWER (CND, MX, US)	
⚠T902	1-437-250-11	TRANSFORMER, POWER (HK, MY, SP)	
TU1	A-4476-414-A	TUNER PACK (TCB-022) (AEP, UK)	
TU1	A-4476-415-A	TUNER PACK (TCB-022) (EXCEPT AEP, UK)	

7-4. CD MECHANISM DECK (CDM55F-K6BD41A)



Ref. No.	Part No.	Description	Remark
501	4-224-894-01	TRAY	
502	4-220-229-01	LEVER (SW)	
503	4-220-239-01	SPRING, TORSION	
504	4-221-816-01	BELT (CDM55)	
505	4-220-234-01	PULLEY (LDG)	
506	4-220-237-01	GEAR (A)	
507	4-220-238-01	GEAR (B)	
508	4-220-233-01	CAM (CDM55)	
509	1-681-807-11	LOADING MOTOR BOARD	
510	4-221-815-01	ROLLER	
511	4-231-779-01	CHASSIS (F)	
512	A-4735-081-A	PULLEY (AT-55F) ASSY	
513	4-232-398-01	SHEET (KH)	
514	4-985-672-01	SCREW (+PTPWHM2.6), FLOATING	
515	4-925-315-31	DAMPER	
516	4-227-598-01	SPACER (55)	
517	A-4735-082-A	MAGNET ASSY	
M901	A-2004-893-A	MOTOR (LD) ASSY (LOADING)	

7-5. BASE UNIT (BU-K6BD41A)



The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
551	4-985-672-01	SCREW (+PTPWHM2.6), FLOATING	
552	4-229-005-01	INSULATOR	
⚠553	8-820-020-02	OPTICAL PICK-UP KSM-213D/Q-RP	
554	A-4725-626-A	CD BOARD, COMPLETE	
555	1-757-055-11	WIRE, PARALLEL (FFC) (16 CORE)	
556	4-229-004-01	SPRING, COMPRESSION	
557	4-231-780-01	HOLDER (213D)	
558	4-221-817-02	SHAFT (BU)	

CD

SECTION 8
ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL: Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F: nonflammable
- Abbreviation
  CND : Canadian model
  HK : Hong Kong model
  MX : Mexican model
  MY : Malaysia model
  SP : Singapore model
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA. . : µA. . uPA. . : µPA. .
  uPB. . : µPB. . uPC. . : µPC. .
  uPD. . : µPD. .
- CAPACITORS
  uF: µF
- COILS
  uH: µH

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiquens pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description			Remark
	A-4725-626-A	CD BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C101	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C102	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C103	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C104	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C108	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C109	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C110	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
C111	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C112	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C114	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C115	1-126-382-11	ELECT	100uF	20%	16V
C116	1-126-382-11	ELECT	100uF	20%	16V
C117	1-126-382-11	ELECT	100uF	20%	16V
C118	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C119	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C121	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C122	1-126-382-11	ELECT	100uF	20%	16V
C123	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C124	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C125	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C126	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C127	1-126-382-11	ELECT	100uF	20%	16V
C129	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C130	1-115-156-11	CERAMIC CHIP	1uF		10V
C131	1-124-233-11	ELECT	10uF	20%	16V
C133	1-115-156-11	CERAMIC CHIP	1uF		10V
C140	1-115-156-11	CERAMIC CHIP	1uF		10V
C141	1-115-156-11	CERAMIC CHIP	1uF		10V
C143	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C145	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C146	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C147	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C148	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C153	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C159	1-162-969-11	CERAMIC CHIP	0.0068uF	10%	25V
C160	1-124-257-00	ELECT	2.2uF	20%	50V
C162	1-126-382-11	ELECT	100uF	20%	16V
C163	1-126-382-11	ELECT	100uF	20%	16V
C165	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C167	1-162-920-11	CERAMIC CHIP	27PF	5%	50V
C168	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C171	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C172	1-164-218-11	CERAMIC CHIP	180PF	0.25PF	50V
C181	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C182	1-164-218-11	CERAMIC CHIP	180PF	0.25PF	50V
		< CONNECTOR >			
CN101	1-691-078-41	HOUSING, CONNECTOR 19P			
CN102	1-785-953-11	CONNECTOR, FFC/FPC 16P			
		< FERRITE BEAD >			
FB101	1-469-144-21	FERRITE			
FB102	1-469-144-21	FERRITE			
FB103	1-469-144-21	FERRITE			
FB104	1-469-144-21	FERRITE			
		< IC >			
IC101	8-752-386-85	IC CXD2587Q			
IC102	8-759-549-28	IC BA5974FP-E2			
IC103	8-752-085-51	IC CXA2568M-T6			
		< COIL >			
L101	1-410-993-11	INDUCTOR CHIP	1uH		
		< TRANSISTOR >			
Q101	8-729-010-08	TRANSISTOR	MSB710-RT1		
		< RESISTOR >			
R101	1-216-835-11	METAL CHIP	15K	5%	1/16W
R102	1-216-845-11	METAL CHIP	100K	5%	1/16W
R103	1-216-835-11	METAL CHIP	15K	5%	1/16W
R104	1-216-839-11	METAL CHIP	33K	5%	1/16W
R105	1-216-833-11	METAL CHIP	10K	5%	1/16W
R106	1-216-821-11	METAL CHIP	1K	5%	1/16W
R107	1-216-833-11	METAL CHIP	10K	5%	1/16W
R108	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R109	1-216-857-11	METAL CHIP	1M	5%	1/16W
R110	1-216-809-11	METAL CHIP	100	5%	1/16W
R111	1-216-857-11	METAL CHIP	1M	5%	1/16W
R113	1-216-857-11	METAL CHIP	1M	5%	1/16W
R114	1-216-833-11	METAL CHIP	10K	5%	1/16W
R116	1-216-797-11	METAL CHIP	10	5%	1/16W
R117	1-216-821-11	METAL CHIP	1K	5%	1/16W

CD | HEADPHONE | I/O SWITCH | LCD | LOADING MOTOR | MAIN

Ref. No.	Part No.	Description			Remark
R118	1-216-809-11	METAL CHIP	100	5%	1/16W
R119	1-216-817-11	METAL CHIP	470	5%	1/16W
R123	1-216-833-11	METAL CHIP	10K	5%	1/16W
R124	1-216-845-11	METAL CHIP	100K	5%	1/16W
R131	1-216-809-11	METAL CHIP	100	5%	1/16W
R132	1-216-863-11	RES-CHIP	3.3M	5%	1/16W
R143	1-216-848-11	METAL CHIP	180K	5%	1/16W
R144	1-216-848-11	METAL CHIP	180K	5%	1/16W
R147	1-216-831-11	METAL CHIP	6.8K	5%	1/16W
R148	1-216-797-11	METAL CHIP	10	5%	1/16W
R149	1-216-797-11	METAL CHIP	10	5%	1/16W
R158	1-216-852-11	METAL CHIP	390K	5%	1/16W
R159	1-216-847-11	METAL CHIP	150K	5%	1/16W
R160	1-216-833-11	METAL CHIP	10K	5%	1/16W
R161	1-216-821-11	METAL CHIP	1K	5%	1/16W
R162	1-216-847-11	METAL CHIP	150K	5%	1/16W
R171	1-218-291-11	RES-CHIP	16K	5%	1/16W
R172	1-216-833-11	METAL CHIP	10K	5%	1/16W
R173	1-216-835-11	METAL CHIP	15K	5%	1/16W
R181	1-218-291-11	RES-CHIP	16K	5%	1/16W
R182	1-216-833-11	METAL CHIP	10K	5%	1/16W
R183	1-216-835-11	METAL CHIP	15K	5%	1/16W
		< NETWORK RESISTOR >			
RN101	1-233-576-11	RES, CHIP NETWORK 100			
		< SWITCH >			
S101	1-771-853-11	SWITCH, DETECTION (LIMIT)			
		< VIBRATOR >			
X101	1-781-947-11	VIBRATOR, CRYSTAL (16.9344MHz)			
**********					
	1-682-409-11	HEADPHONE BOARD			
		**********			
		< CAPACITOR >			
C161	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C261	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
		< FERRITE BEAD/RESISTOR >			
FB301	1-414-813-11	FERRITE			
FB303	1-414-813-11	FERRITE (CND, US)			
FB303	1-216-864-11	METAL CHIP	0	5%	1/16W (EXCEPT CND, US)
FB304	1-414-813-11	FERRITE (CND, US)			
FB304	1-216-864-11	METAL CHIP	0	5%	1/16W (EXCEPT CND, US)
FB305	1-414-813-11	FERRITE (CND, US)			
FB305	1-216-864-11	METAL CHIP	0	5%	1/16W (EXCEPT CND, US)
		< JACK >			
J301	1-794-453-11	JACK (PHONES)			
		< COIL >			
L102	1-412-002-31	INDUCTOR	4.7uH		
L202	1-412-002-31	INDUCTOR	4.7uH		
**********					
	1-682-417-11	I/O SWITCH BOARD			
		**********			
		< SWITCH >			
S801	1-786-220-11	SWITCH, KEY BOARD (I/⏻)			
**********					
	1-682-412-11	LCD BOARD			
		**********			
		< CONNECTOR >			
CN803	1-785-949-11	CONNECTOR, FFC/FPC 20P			
CN810	1-785-950-11	CONNECTOR, FFC/FPC 18P			
		< LED >			
D866	8-719-085-55	LED SY3318-V-L (LCD BACK LIGHT)			
D867	8-719-085-55	LED SY3318-V-L (LCD BACK LIGHT)			
D868	8-719-085-55	LED SY3318-V-L (LCD BACK LIGHT)			
D869	8-719-085-55	LED SY3318-V-L (LCD BACK LIGHT)			
		< LIQUID CRYSTAL DISPLAY >			
LCD801	1-803-542-11	DISPLAY PANEL, LIQUID CRYSTAL			
**********					
	1-681-807-11	LOADING MOTOR BOARD			
		**********			
		< CONNECTOR >			
* CN1	1-568-943-11	PIN, CONNECTOR 5P			
		< SWITCH >			
S1	1-771-799-11	SWITCH, LEVER (SLIDE) (DISC TRAY OPEN/CLOSE DETECT)			
**********					
	A-4726-691-A	MAIN BOARD, COMPLETE (AEP, UK)			
	A-4727-415-A	MAIN BOARD, COMPLETE (HK, MY, SP)			
	A-4727-417-A	MAIN BOARD, COMPLETE (CND, US)			
	A-4727-598-A	MAIN BOARD, COMPLETE (MX)			
		**********			
	4-217-354-11	BUSHING, INSULATING			
	4-230-078-01	SCREW, +BV TAPPING			
	7-685-546-14	SCREW +BTP 3X8 TYPE2 N-S			
	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S			
		< CAPACITOR >			
C101	1-126-963-11	ELECT	4.7uF	20%	50V
C102	1-126-963-11	ELECT	4.7uF	20%	50V
C103	1-126-963-11	ELECT	4.7uF	20%	50V
C104	1-126-963-11	ELECT	4.7uF	20%	50V
C105	1-126-963-11	ELECT	4.7uF	20%	50V
C107	1-126-963-11	ELECT	4.7uF	20%	50V
C108	1-126-963-11	ELECT	4.7uF	20%	50V

MAIN

Ref. No.	Part No.	Description			Remark
C109	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C110	1-164-245-11	CERAMIC CHIP	0.015uF	10%	25V
C111	1-164-245-11	CERAMIC CHIP	0.015uF	10%	25V
C112	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C113	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C114	1-126-963-11	ELECT	4.7uF	20%	50V
C117	1-162-927-11	CERAMIC CHIP	100PF	5%	50V (EXCEPT MX)
C130	1-162-953-11	CERAMIC CHIP	100PF	5%	50V
C140	1-126-961-11	ELECT	2.2uF	20%	50V
C141	1-126-967-11	ELECT	47uF	20%	50V
C142	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C143	1-126-965-11	ELECT	22uF	20%	50V
C144	1-130-495-00	MYLAR	0.1uF	5%	50V
C145	1-130-495-00	MYLAR	0.1uF	5%	50V
C160	1-104-665-11	ELECT	100uF	20%	16V
C170	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V (HK, MX, MY, SP)
C170	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V (AEP, CND, UK, US)
C201	1-126-963-11	ELECT	4.7uF	20%	50V
C202	1-126-963-11	ELECT	4.7uF	20%	50V
C203	1-126-963-11	ELECT	4.7uF	20%	50V
C204	1-126-963-11	ELECT	4.7uF	20%	50V
C205	1-126-963-11	ELECT	4.7uF	20%	50V
C206	1-126-963-11	ELECT	4.7uF	20%	50V
C207	1-126-963-11	ELECT	4.7uF	20%	50V
C208	1-126-963-11	ELECT	4.7uF	20%	50V
C209	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C210	1-164-245-11	CERAMIC CHIP	0.015uF	10%	25V
C211	1-164-245-11	CERAMIC CHIP	0.015uF	10%	25V
C212	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C213	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C214	1-126-963-11	ELECT	4.7uF	20%	50V
C217	1-162-927-11	CERAMIC CHIP	100PF	5%	50V (EXCEPT MX)
C230	1-162-953-11	CERAMIC CHIP	100PF	5%	50V
C240	1-126-961-11	ELECT	2.2uF	20%	50V
C241	1-126-967-11	ELECT	47uF	20%	50V
C242	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C243	1-126-965-11	ELECT	22uF	20%	50V
C244	1-130-495-00	MYLAR	0.1uF	5%	50V
C245	1-130-495-00	MYLAR	0.1uF	5%	50V
C260	1-104-665-11	ELECT	100uF	20%	16V
C270	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V (HK, MX, MY, SP)
C270	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V (AEP, CND, UK, US)
C301	1-126-964-11	ELECT	10uF	20%	50V
C304	1-104-665-11	ELECT	100uF	20%	16V
C305	1-104-665-11	ELECT	100uF	20%	16V
C306	1-126-964-11	ELECT	10uF	20%	50V
C307	1-126-963-11	ELECT	4.7uF	20%	50V
C308	1-126-955-11	ELECT	4700uF	20%	35V
C309	1-126-955-11	ELECT	4700uF	20%	35V
C310	1-126-944-11	ELECT	3300uF	20%	25V
C311	1-126-942-61	ELECT	1000uF	20%	25V
C312	1-104-666-11	ELECT	220uF	20%	16V
C313	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C314	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C315	1-126-947-11	ELECT	47uF	20%	16V
C316	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C317	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C318	1-104-661-91	ELECT	330uF	20%	16V
C319	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C320	1-104-666-11	ELECT	220uF	20%	16V
C321	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C322	1-104-666-11	ELECT	220uF	20%	16V
C323	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C324	1-126-935-11	ELECT	470uF	20%	16V
C325	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C326	1-104-665-11	ELECT	100uF	20%	16V
C328	1-104-665-11	ELECT	100uF	20%	16V
C329	1-126-935-11	ELECT	470uF	20%	16V
C330	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C331	1-126-934-11	ELECT	220uF	20%	10V
C332	1-126-926-11	ELECT	1000uF	20%	10V
C333	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C339	1-126-935-11	ELECT	470uF	20%	16V
C340	1-126-964-11	ELECT	10uF	20%	50V
C342	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C343	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C344	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C345	1-104-665-11	ELECT	100uF	20%	10V
C346	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C349	1-104-665-11	ELECT	100uF	20%	10V
C360	1-126-935-11	ELECT	470uF	20%	16V
C361	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V (CND, US)
C361	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V (AEP, HK, MY, SP, UK)
C363	1-162-294-31	CERAMIC	0.001uF	10%	50V
C364	1-162-294-31	CERAMIC	0.001uF	10%	50V
C365	1-126-934-11	ELECT	220uF	20%	10V
C369	1-162-927-11	CERAMIC CHIP	100PF	5%	50V (CND, US)
C370	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C371	1-164-159-21	CERAMIC	0.1uF		50V
C372	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C373	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C374	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C375	1-162-294-31	CERAMIC	0.001uF	10%	50V
C382	1-162-923-11	CERAMIC CHIP	47PF	5%	50V (CND, US)
C600	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C603	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V (AEP, UK)
C604	1-126-947-11	ELECT	47uF	20%	16V (AEP, UK)
C605	1-164-185-11	CERAMIC CHIP	13PF	5%	50V (AEP, UK)
C606	1-164-185-11	CERAMIC CHIP	13PF	5%	50V (AEP, UK)
C607	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V (AEP, UK)
C608	1-162-961-11	CERAMIC CHIP	330PF	10%	50V (AEP, UK)

Ref. No.	Part No.	Description			Remark
C609	1-164-739-11	CERAMIC CHIP	560PF	5%	50V (AEP, UK)
C610	1-126-963-11	ELECT	4.7uF	20%	50V (AEP, UK)
C611	1-162-927-11	CERAMIC CHIP	100PF	5%	50V (AEP, UK)
C800	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C803	1-162-975-11	CERAMIC CHIP	24PF	5%	50V
C804	1-162-975-11	CERAMIC CHIP	24PF	5%	50V
C805	1-115-156-11	CERAMIC CHIP	1uF		10V
C806	1-115-156-11	CERAMIC CHIP	1uF		10V
C807	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C808	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C809	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C810	1-115-456-21	CAPACITOR	0.22F		5.5V
C811	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C812	1-162-920-11	CERAMIC CHIP	27PF	5%	50V
C813	1-126-964-11	ELECT	10uF	20%	50V
C814	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
		< CONNECTOR >			
* CN101	1-569-935-11	SOCKET, CONNECTOR 19P			
* CN301	1-569-366-11	SOCKET, CONNECTOR 18P			
* CN401	1-568-954-11	PIN, CONNECTOR 5P			
CN501	1-506-469-11	PIN, CONNECTOR 4P			
* CN801	1-569-933-11	SOCKET, CONNECTOR 16P			
CN802	1-785-951-11	CONNECTOR, FFC/FPC (ZIF) 18P			
CN804	1-785-952-11	CONNECTOR, FFC/FPC (ZIF) 20P			
		< DIODE >			
D303	8-719-200-82	DIODE	11ES2-TA1B		
D304	8-719-921-40	DIODE	MTZJ-T-77-4.7C		
D305	8-719-110-17	DIODE	MTZJ-T-77-10B		
D306	8-719-921-63	DIODE	MTZJ-T-77-7.5B		
D307	8-719-110-17	DIODE	MTZJ-T77-10B		
D308	8-719-109-89	DIODE	MTZJ-T-77-5.6B		
D309	8-719-110-08	DIODE	MTZJ-T-77-8.2B		
D310	8-719-200-82	DIODE	11ES2-TA1B		
D311	8-719-110-31	DIODE	MTZJ-T-77-12B		
D320	8-719-988-61	DIODE	1SS355TE-17		
D321	8-719-988-61	DIODE	1SS355TE-17		
D322	8-719-988-61	DIODE	1SS355TE-17		
D323	8-719-988-61	DIODE	1SS355TE-17		
D601	8-719-200-82	DIODE	11ES2-TA1B		
D602	8-719-200-82	DIODE	11ES2-TA1B		
D801	8-719-991-33	DIODE	1SS133T-77		
D802	8-719-991-33	DIODE	1SS133T-77		
D805	8-719-982-11	DIODE	MTZJ-T-77-4.3B (AEP, UK)		
D806	8-719-991-33	DIODE	1SS133T-77 (AEP, UK)		
D807	8-719-991-33	DIODE	1SS133T-77		
D808	8-719-991-33	DIODE	1SS133T-77		
D811	8-719-991-33	DIODE	1SS133T-77		
D812	8-719-991-33	DIODE	1SS133T-77		
D813	8-719-988-61	DIODE	1SS355TE-17		
		<FERRITE BEAD/RESISTOR >			
FB302	1-414-813-11	FERRITE (CND, US)			
FB302	1-216-864-11	METAL CHIP	0	5%	1/16W (EXCEPT CND, US)
		< IC >			
IC101	8-759-584-38	IC	TDA7296		
IC201	8-759-584-38	IC	TDA7296		
IC301	8-759-646-52	IC	KIA7805API		
IC302	8-759-584-40	IC	KA7908		
IC304	8-759-646-54	IC	KIA7808API		
IC306	8-759-646-54	IC	KIA7808API		
IC320	8-759-584-65	IC	KA3082		
IC321	8-749-923-04	IC	TOTX178X (OPTICAL DIGITAL OUT (CD))		
IC323	6-700-261-01	IC	BD3861FS		
IC324	8-759-359-49	IC	NJM3414AV (TE2)		
IC801	8-752-925-92	IC	CXP83124A-050Q		
IC803	8-759-652-68	IC	BMR-0301H		
IC804	8-759-557-36	IC	BU1924F-E2 (AEP, UK)		
		< RESISTOR >			
JR115	1-216-864-11	METAL CHIP	0	5%	1/16W
JR215	1-216-864-11	METAL CHIP	0	5%	1/16W
JR300	1-216-864-11	METAL CHIP	0	5%	1/16W
JR301	1-216-864-11	METAL CHIP	0	5%	1/16W
JR302	1-216-864-11	METAL CHIP	0	5%	1/16W
JR303	1-216-864-11	METAL CHIP	0	5%	1/16W
JR304	1-216-864-11	METAL CHIP	0	5%	1/16W
JR305	1-216-864-11	METAL CHIP	0	5%	1/16W
JR307	1-216-864-11	METAL CHIP	0	5%	1/16W
JR323	1-216-864-11	METAL CHIP	0	5%	1/16W
		< COIL >			
L101	1-420-872-00	COIL, AIR-CORE			
L201	1-420-872-00	COIL, AIR-CORE			
L301	1-410-324-11	INDUCTOR	4.7uH		
L302	1-412-002-31	INDUCTOR	4.7uH		
L303	1-410-509-11	INDUCTOR	10uH		
L304	1-414-137-31	INDUCTOR	0.22uH		
L305	1-410-750-41	INDUCTOR	0.47uH		
L306	1-410-985-22	INDUCTOR CHIP	0.22uH (EXCEPT CND, US)		
L306	1-410-997-42	INDUCTOR CHIP	2.2uH (CND, US)		
L307	1-414-146-31	INDUCTOR	2.2uH		
		< TRANSISTOR >			
Q100	8-729-920-31	TRANSISTOR	DTC343TK-T-146		
Q200	8-729-920-31	TRANSISTOR	DTC343TK-T-146		
Q301	8-729-028-54	TRANSISTOR	KTC3205-Y-AT		
Q302	8-729-028-54	TRANSISTOR	KTC3205-Y-AT		
Q303	8-759-068-54	TRANSISTOR	KRA102S		
Q304	8-729-038-68	TRANSISTOR	KRC103S		
Q305	8-729-019-00	TRANSISTOR	KTC2026		
Q306	8-729-019-00	TRANSISTOR	KTC2026		
Q307	8-759-068-54	TRANSISTOR	KRA102S		
Q308	8-729-038-68	TRANSISTOR	KRC103S		
Q312	8-729-038-68	TRANSISTOR	KRC103S		
Q313	8-759-068-54	TRANSISTOR	KRA102S		
Q330	8-729-038-68	TRANSISTOR	KRC103S		
Q355	8-729-019-00	TRANSISTOR	KTC2026		
Q601	8-729-202-56	TRANSISTOR	2SA950-Y-TPE2		

MAIN

Ref. No.	Part No.	Description			Remark
Q602	8-729-038-67	TRANSISTOR	KRC102S		
Q603	8-729-038-67	TRANSISTOR	KRC102S		
Q604	8-729-202-56	TRANSISTOR	2SA950-Y-TPE2		
Q605	8-729-038-67	TRANSISTOR	KRC102S		
Q606	8-729-038-67	TRANSISTOR	KRC102S		
Q607	8-729-801-84	TRANSISTOR	2SB1013-TP-34		
Q608	8-729-801-84	TRANSISTOR	2SB1013-TP-34		
Q609	8-729-038-67	TRANSISTOR	KRC102S		
Q661	8-729-040-76	TRANSISTOR	KTA1273-Y-AT		
Q662	8-729-038-67	TRANSISTOR	KRC102S		
Q801	8-729-038-67	TRANSISTOR	KRC102S		
Q802	8-729-038-67	TRANSISTOR	KRC102S		
Q803	8-729-038-67	TRANSISTOR	KRC102S		
Q804	8-729-038-67	TRANSISTOR	KRC102S		
Q805	8-729-038-67	TRANSISTOR	KRC102S		
Q806	8-729-038-67	TRANSISTOR	KRC102S		
Q807	8-729-038-67	TRANSISTOR	KRC102S		
Q808	8-729-038-67	TRANSISTOR	KRC102S		
Q809	8-729-038-67	TRANSISTOR	KRC102S		
Q810	8-729-038-67	TRANSISTOR	KRC102S		
Q811	8-729-038-67	TRANSISTOR	KRC102S		
Q812	8-729-120-28	TRANSISTOR	2SC2412K-T-146-R		(AEP, UK)
Q813	8-729-038-67	TRANSISTOR	KRC102S		
Q815	8-729-920-31	TRANSISTOR	DTC343TK-T-146		
Q816	8-729-920-31	TRANSISTOR	DTC343TK-T-146		
Q817	8-729-920-31	TRANSISTOR	DTC343TK-T-146		
Q818	8-729-920-31	TRANSISTOR	DTC343TK-T-146		
Q890	8-759-068-54	TRANSISTOR	KRA102S		
Q891	8-729-120-28	TRANSISTOR	2SC2412K-T-146-R		
		< RESISTOR >			
R101	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R102	1-216-821-11	METAL CHIP	1K	5%	1/16W
R103	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R104	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R109	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R110	1-216-826-11	METAL CHIP	2.7K	5%	1/16W
R113	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R114	1-216-839-11	METAL CHIP	33K	5%	1/16W
R116	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R117	1-216-830-11	METAL CHIP	5.6K	5%	1/16W
R118	1-216-821-11	METAL CHIP	1K	5%	1/16W
R119	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R130	1-216-817-11	METAL CHIP	470	5%	1/16W
R131	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R132	1-216-841-11	METAL CHIP	47K	5%	1/16W
R140	1-216-817-11	METAL CHIP	470	5%	1/16W (EXCEPT MX)
R140	1-218-482-11	RES-CHIP	430	5%	1/16W (MX)
R141	1-216-837-11	METAL CHIP	22K	5%	1/16W
R142	1-216-839-11	METAL CHIP	33K	5%	1/16W (MX)
R142	1-216-841-11	METAL CHIP	47K	5%	1/16W (EXCEPT MX)
R143	1-216-845-11	METAL CHIP	100K	5%	1/16W
R144	1-249-389-11	CARBON	4.7	5%	1/4W
R160	1-216-806-11	RES-CHIP	56	5%	1/16W

Ref. No.	Part No.	Description			Remark
R201	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R202	1-216-821-11	METAL CHIP	1K	5%	1/16W
R203	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R204	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R209	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R210	1-216-826-11	METAL CHIP	2.7K	5%	1/16W
R213	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R214	1-216-839-11	METAL CHIP	33K	5%	1/16W
R216	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R217	1-216-830-11	METAL CHIP	5.6K	5%	1/16W
R218	1-216-821-11	METAL CHIP	1K	5%	1/16W
R219	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R230	1-216-817-11	METAL CHIP	470	5%	1/16W
R231	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R232	1-216-841-11	METAL CHIP	47K	5%	1/16W
R240	1-216-817-11	METAL CHIP	470	5%	1/16W (EXCEPT MX)
R240	1-218-482-11	RES-CHIP	430	5%	1/16W (MX)
R241	1-216-837-11	METAL CHIP	22K	5%	1/16W
R242	1-216-839-11	METAL CHIP	33K	5%	1/16W (MX)
R242	1-216-841-11	METAL CHIP	47K	5%	1/16W (EXCEPT MX)
R243	1-216-845-11	METAL CHIP	100K	5%	1/16W
R245	1-249-389-11	CARBON	4.7	5%	1/4W
R260	1-216-806-11	RES-CHIP	56	5%	1/16W
R304	1-216-809-11	METAL CHIP	100	5%	1/16W
R305	1-216-809-11	METAL CHIP	100	5%	1/16W
R307	1-216-833-11	METAL CHIP	10K	5%	1/16W
R308	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R309	1-216-797-11	METAL CHIP	10	5%	1/16W
R310	1-216-809-11	METAL CHIP	100	5%	1/16W
R311	1-216-809-11	METAL CHIP	100	5%	1/16W
R312	1-249-413-11	CARBON	470	5%	1/4W
R313	1-249-413-11	CARBON	470	5%	1/4W
R314	1-249-413-11	CARBON	470	5%	1/4W
R317	1-216-841-11	METAL CHIP	47K	5%	1/16W
R318	1-216-841-11	METAL CHIP	47K	5%	1/16W
R320	1-216-851-11	METAL CHIP	330K	5%	1/16W
R340	1-247-807-31	CARBON	100	5%	1/4W
R350	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R351	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R601	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R602	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R603	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R604	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R605	1-249-407-11	CARBON	150	5%	1/4W
R606	1-216-841-11	METAL CHIP	47K	5%	1/16W
R607	1-216-841-11	METAL CHIP	47K	5%	1/16W
R608	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R609	1-249-408-11	CARBON	180	5%	1/4W
R610	1-216-843-11	METAL CHIP	68K	5%	1/16W
R611	1-216-845-11	METAL CHIP	100K	5%	1/16W
R612	1-216-821-11	METAL CHIP	1K	5%	1/16W
R613	1-216-821-11	METAL CHIP	1K	5%	1/16W
R614	1-216-821-11	METAL CHIP	1K	5%	1/16W
R615	1-216-821-11	METAL CHIP	1K	5%	1/16W

Ref. No.	Part No.	Description			Remark
R616	1-216-821-11	METAL CHIP	1K	5%	1/16W
R617	1-216-829-11	METAL CHIP	4.7K	5%	1/16W (AEP, UK)
R618	1-216-853-11	METAL CHIP	470K	5%	1/16W (AEP, UK)
R619	1-216-845-11	METAL CHIP	100K	5%	1/16W (AEP, UK)
R620	1-216-821-11	METAL CHIP	1K	5%	1/16W (AEP, UK)
R621	1-216-814-11	METAL CHIP	270	5%	1/16W (AEP, UK)
R622	1-216-841-11	METAL CHIP	47K	5%	1/16W (AEP, UK)
R623	1-216-843-11	METAL CHIP	68K	5%	1/16W (AEP, UK)
R624	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R626	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R627	1-247-804-11	CARBON	75	5%	1/4W
R628	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R629	1-216-841-11	METAL CHIP	47K	5%	1/16W
R800	1-216-821-11	METAL CHIP	1K	5%	1/16W
R801	1-216-821-11	METAL CHIP	1K	5%	1/16W
R802	1-216-821-11	METAL CHIP	1K	5%	1/16W
R803	1-216-821-11	METAL CHIP	1K	5%	1/16W
R804	1-216-821-11	METAL CHIP	1K	5%	1/16W
R805	1-216-821-11	METAL CHIP	1K	5%	1/16W
R806	1-216-821-11	METAL CHIP	1K	5%	1/16W
R807	1-216-821-11	METAL CHIP	1K	5%	1/16W
R808	1-216-821-11	METAL CHIP	1K	5%	1/16W
R810	1-216-821-11	METAL CHIP	1K	5%	1/16W
R811	1-216-821-11	METAL CHIP	1K	5%	1/16W
R812	1-216-821-11	METAL CHIP	1K	5%	1/16W
R813	1-216-821-11	METAL CHIP	1K	5%	1/16W
R814	1-216-821-11	METAL CHIP	1K	5%	1/16W
R815	1-216-821-11	METAL CHIP	1K	5%	1/16W
R817	1-216-821-11	METAL CHIP	1K	5%	1/16W
R818	1-216-821-11	METAL CHIP	1K	5%	1/16W
R819	1-216-821-11	METAL CHIP	1K	5%	1/16W
R820	1-216-821-11	METAL CHIP	1K	5%	1/16W
R821	1-216-821-11	METAL CHIP	1K	5%	1/16W
R822	1-216-821-11	METAL CHIP	1K	5%	1/16W
R824	1-216-821-11	METAL CHIP	1K	5%	1/16W
R825	1-216-809-11	METAL CHIP	100	5%	1/16W
R826	1-216-821-11	METAL CHIP	1K	5%	1/16W
R827	1-216-821-11	METAL CHIP	1K	5%	1/16W
R828	1-216-821-11	METAL CHIP	1K	5%	1/16W
R832	1-216-821-11	METAL CHIP	1K	5%	1/16W
R833	1-216-821-11	METAL CHIP	1K	5%	1/16W
R834	1-216-821-11	METAL CHIP	1K	5%	1/16W
R835	1-216-821-11	METAL CHIP	1K	5%	1/16W
R836	1-216-821-11	METAL CHIP	1K	5%	1/16W
R837	1-216-821-11	METAL CHIP	1K	5%	1/16W
R838	1-216-817-11	METAL CHIP	470	5%	1/16W
R840	1-216-841-11	METAL CHIP	47K	5%	1/16W
R841	1-216-819-11	METAL CHIP	680	5%	1/16W (HK, MY, SP)
R841	1-216-823-11	METAL CHIP	1.5K	5%	1/16W (AEP, UK)
R841	1-216-864-11	METAL CHIP	0	5%	1/16W (CND, US)
R841	1-216-826-11	METAL CHIP	2.7K	5%	1/16W (MX)
R842	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R843	1-216-845-11	METAL CHIP	100K	5%	1/16W
R845	1-216-845-11	METAL CHIP	100K	5%	1/16W
R846	1-216-837-11	METAL CHIP	22K	5%	1/16W
R847	1-216-833-11	METAL CHIP	10K	5%	1/16W
R848	1-216-833-11	METAL CHIP	10K	5%	1/16W
R849	1-216-833-11	METAL CHIP	10K	5%	1/16W
R850	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R851	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R852	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R853	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R854	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R855	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R856	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R857	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R858	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R859	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R860	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R861	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R862	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R863	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R864	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R865	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R866	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R867	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R868	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R869	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R870	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R871	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R872	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R873	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R874	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R875	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R876	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R877	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R878	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R879	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R880	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R881	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R882	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R883	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R884	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R885	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R886	1-216-821-11	METAL CHIP	1K	5%	1/16W
R887	1-216-821-11	METAL CHIP	1K	5%	1/16W
R888	1-216-821-11	METAL CHIP	1K	5%	1/16W
R890	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R891	1-216-822-11	METAL CHIP	1.2K	5%	1/16W
R892	1-216-817-11	METAL CHIP	470	5%	1/16W
R894	1-216-821-11	METAL CHIP	1K	5%	1/16W
R895	1-216-801-11	METAL CHIP	22	5%	1/16W
R896	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R897	1-216-821-11	METAL CHIP	1K	5%	1/16W
R898	1-216-821-11	METAL CHIP	1K	5%	1/16W

MAIN POWER

Ref. No.	Part No.	Description			Remark
R899	1-216-821-11	METAL CHIP	1K	5%	1/16W
		< TERMINAL BOARD/JACK >			
SJ301	1-694-820-11	TERMINAL BOARD (SPEAKER IMPEDANCE USE 6-16Ω)			
SJ302	1-815-045-11	JACK, PIN 2P (AUDIO IN MD (VIDEO))			
		< GROUND TERMINAL BOARD >			
TH1	1-537-770-21	TERMINAL BOARD, GROUND			
TH2	1-537-770-21	TERMINAL BOARD, GROUND			
		< TUNER UNIT >			
TU1	A-4476-414-A	TUNER PACK (AEP, UK)			
TU1	A-4476-415-A	TUNER PACK (EXCEPT AEP, UK)			
		< VIBRATOR >			
X801	1-767-184-11	VIBRATOR, CERAMIC (4.19MHz)			
X802	1-567-098-41	VIBRATOR, CRYSTAL (32.768kHz)			
X803	1-579-242-41	VIBRATOR, CRYSTAL (4.332MHz) (AEP, UK)			
**********					
	A-4726-695-A	POWER BOARD, COMPLETE (AEP, UK)			
	A-4727-416-A	POWER BOARD, COMPLETE (HK, MY, SP)			
	A-4727-421-A	POWER BOARD, COMPLETE (CND, US)			
	A-4727-599-A	POWER BOARD, COMPLETE (MX)			
		**********			
		< CAPACITOR >			
C902	1-101-005-00	CERAMIC	22000PF		50V
C903	1-101-005-00	CERAMIC	22000PF		50V
C904	1-101-005-00	CERAMIC	22000PF		50V
C905	1-101-005-00	CERAMIC	22000PF		50V
C906	1-161-494-00	CERAMIC	0.022uF		25V
C907	1-161-494-00	CERAMIC	0.022uF		25V
C908	1-161-494-00	CERAMIC	0.022uF		25V
C909	1-161-494-00	CERAMIC	0.022uF		25V
C910	1-161-494-00	CERAMIC	0.022uF		25V
C911	1-126-947-11	ELECT	47uF	20%	16V
C913	1-161-494-00	CERAMIC	0.022uF		25V
C914	1-161-494-00	CERAMIC	0.022uF		25V
C915	1-161-494-00	CERAMIC	0.022uF		25V
C916	1-161-494-00	CERAMIC	0.022uF		25V
C917	1-126-934-11	ELECT	220uF	20%	10V
C918	1-124-261-00	ELECT	10uF	20%	50V
C920	1-104-666-11	ELECT	220uF	20%	16V
		< CONNECTOR >			
CN901	1-564-321-00	PIN, CONNECTOR 2P			
CN902	1-766-282-11	PIN, CONNECTOR (PC BOARD) 9P			
		< DIODE >			
D902	8-719-902-17	DIODE 1N5401			
D903	8-719-902-17	DIODE 1N5401			
D904	8-719-902-17	DIODE 1N5401			
D905	8-719-902-17	DIODE 1N5401			
D906	8-719-046-07	DIODE 2A02M			
D907	8-719-046-07	DIODE 2A02M			
D908	8-719-046-07	DIODE 2A02M			

Ref. No.	Part No.	Description			Remark
D909	8-719-046-07	DIODE 2A02M			
D910	8-719-991-33	DIODE 1SS133T-77			
D911	8-719-991-33	DIODE 1SS133T-77			
D912	8-719-991-33	DIODE 1SS133T-77			
D913	8-719-991-33	DIODE 1SS133T-77			
D915	8-719-109-93	DIODE MTZJ-T-77-6.2B			
D917	8-719-991-33	DIODE 1SS133T-77			
D918	8-719-109-93	DIODE MTZJ-T-77-6.2B			
		< FUSE >			
⚠F901	1-576-374-11	FUSE, GLASS TUBE (DIA. 5) T1.25AL/125V			(CND, MX, US)
⚠F901	1-533-464-11	FUSE, GLASS TUBE (DIA. 5) T0.8AL/250V			(AEP, UK)
⚠F902	1-533-466-11	FUSE, GLASS TUBE (DIA. 5) T1.25AL/250V			(HK, MY, SP)
⚠F903	1-576-375-11	FUSE, GLASS TUBE (DIA. 5) T3.15AL/125V			(CND, MX, US)
⚠F903	1-533-468-11	FUSE, GLASS TUBE (DIA. 5) T2AL/250V			(EXCEPT CND, MX, US)
⚠F904	1-576-375-11	FUSE, GLASS TUBE (DIA. 5) T3.15AL/125V			(CND, MX, US)
⚠F904	1-533-468-11	FUSE, GLASS TUBE (DIA. 5) T2AL/250V			(EXCEPT CND, MX, US)
⚠F905	1-533-464-11	FUSE, GLASS TUBE (DIA. 5) T0.8AL/250V			(HK, MY, SP)
		< FUSE HOLDER >			
FH901	1-533-313-11	HOLDER, FUSE (HK, MY, SP)			
FH902	1-533-313-11	HOLDER, FUSE (HK, MY, SP)			
FH903	1-533-313-11	HOLDER, FUSE (HK, MY, SP)			
FH904	1-533-313-11	HOLDER, FUSE (HK, MY, SP)			
FH905	1-533-313-11	HOLDER, FUSE			
FH906	1-533-313-11	HOLDER, FUSE			
FH907	1-533-313-11	HOLDER, FUSE			
FH908	1-533-313-11	HOLDER, FUSE			
FH909	1-533-313-11	HOLDER, FUSE (EXCEPT HK, MY, SP)			
FH910	1-533-313-11	HOLDER, FUSE (EXCEPT HK, MY, SP)			
		< LINE FILTER >			
LF901	1-424-150-11	TRANSFORMER, LINE FILTER (CND, MX, US)			
		< TRANSISTOR >			
Q901	8-729-028-54	TRANSISTOR	KTC3205-Y-AT		
Q902	8-729-119-79	TRANSISTOR	2SC2785TP-FEK		
		< RESISTOR >			
R902	1-249-417-11	CARBON	1K	5%	1/4W
R904	1-249-425-11	CARBON	4.7K	5%	1/4W
R905	1-249-437-11	CARBON	47K	5%	1/4W
R909	1-219-237-11	SOLID	3.3M	20%	1/2W (CND, US)
		< RELAY >			
⚠RY901	1-755-332-11	RELAY			
		< SWITCH >			
⚠S901	1-786-152-11	SWITCH, SLIDE (VOLTAGE SELECTOR)			(HK, MY, SP)

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description			Remark
		< TRANSFORMER >			
⚠T901	1-437-251-11	TRANSFORMER, POWER (AEP, UK)			
⚠T901	1-437-252-11	TRANSFORMER, POWER (CND, MX, US)			
⚠T901	1-437-253-11	TRANSFORMER, POWER (HK, MY, SP)			
⚠T902	1-437-248-11	TRANSFORMER, POWER (AEP, UK)			
⚠T902	1-437-249-11	TRANSFORMER, POWER (CND, MX, US)			
⚠T902	1-437-250-11	TRANSFORMER, POWER (HK, MY, SP)			
**********					
	A-4726-692-A	SWITCH BOARD, COMPLETE (EXCEPT CND, MX, US)			
	A-4727-418-A	SWITCH BOARD, COMPLETE (CND, MX, US)			
		**********			
	1-823-226-11	CABLE, FLEXIBLE FLAT (16 CORE)			
		< CAPACITOR >			
C612	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C613	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C614	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C615	1-124-259-11	ELECT	4.7uF	20%	16V
		< CONNECTOR >			
* CN805	1-565-938-11	SOCKET, CONNECTOR 16P			
CN806	1-568-940-11	PIN, CONNECTOR 2P			
		< DIODE >			
D852	8-719-084-70	LED SY3318-V-S1-T (▶II (CD))			
D853	8-719-084-70	LED SY3318-V-S1-T (TUNER/BAND)			
D854	8-719-074-42	LED SLR325VR-T31 (DSG)			
D855	8-719-084-70	LED SY3318-V-S1-T (◀▶ (TAPE))			
D856	8-719-074-42	LED SLR325VR-T31 (CD SYNC)			
		< IC >			
IC802	8-759-827-70	IC NJL64H400A-1 (REMOTE CONTROL RECEIVER)			
		< COIL >			
L601	1-410-993-11	INDUCTOR CHIP	1uH		
L602	1-410-993-11	INDUCTOR CHIP	1uH		
		< TRANSISTOR >			
Q852	8-729-027-43	TRANSISTOR	DTC114EKA-T146		
Q853	8-729-027-43	TRANSISTOR	DTC114EKA-T146		
Q854	8-729-027-43	TRANSISTOR	DTC114EKA-T146		
Q855	8-729-027-43	TRANSISTOR	DTC114EKA-T146		
Q856	8-729-027-43	TRANSISTOR	DTC114EKA-T146		
		< RESISTOR >			
R600	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R653	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R654	1-216-824-11	METAL CHIP	1.8K	5%	1/16W
R655	1-216-822-11	METAL CHIP	1.2K	5%	1/16W
R656	1-216-820-11	METAL CHIP	820	5%	1/16W
R657	1-216-819-11	METAL CHIP	680	5%	1/16W
R658	1-216-819-11	METAL CHIP	680	5%	1/16W
R659	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R660	1-216-820-11	METAL CHIP	820	5%	1/16W
R661	1-216-822-11	METAL CHIP	1.2K	5%	1/16W
R662	1-216-824-11	METAL CHIP	1.8K	5%	1/16W
R663	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R667	1-216-845-11	METAL CHIP	100K	5%	1/16W
R668	1-216-845-11	METAL CHIP	100K	5%	1/16W
R675	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R679	1-216-818-11	METAL CHIP	560	5%	1/16W
R680	1-216-818-11	METAL CHIP	560	5%	1/16W
R684	1-216-819-11	METAL CHIP	680	5%	1/16W
R687	1-216-818-11	METAL CHIP	560	5%	1/16W
R691	1-216-822-11	METAL CHIP	1.2K	5%	1/16W
R692	1-216-820-11	METAL CHIP	820	5%	1/16W
R698	1-216-818-11	METAL CHIP	560	5%	1/16W
R699	1-216-818-11	METAL CHIP	560	5%	1/16W
		< ROTARY ENCODER >			
RV801	1-473-392-11	ENCODER, ROTARY (VOLUME)			
		< SWITCH >			
S802	1-786-220-11	SWITCH, KEY BOARD (▶II)			
S803	1-786-220-11	SWITCH, KEY BOARD (■ (CD))			
S804	1-786-220-11	SWITCH, KEY BOARD (▶▶ (CD))			
S805	1-786-220-11	SWITCH, KEY BOARD (◀◀ (CD))			
S806	1-786-220-11	SWITCH, KEY BOARD (⏏ (CD))			
S807	1-786-220-11	SWITCH, KEY BOARD (◀▶ (TAPE))			
S808	1-786-220-11	SWITCH, KEY BOARD (■ (TAPE))			
S809	1-786-220-11	SWITCH, KEY BOARD (▶▶ (TAPE))			
S810	1-786-220-11	SWITCH, KEY BOARD (◀◀ (TAPE))			
S811	1-786-220-11	SWITCH, KEY BOARD (II (TAPE))			
S812	1-786-220-11	SWITCH, KEY BOARD (CD SYNC)			
S813	1-786-220-11	SWITCH, KEY BOARD (TUNER/BAND)			
S814	1-786-220-11	SWITCH, KEY BOARD (– (TUNING))			
S815	1-786-220-11	SWITCH, KEY BOARD (+ (TUNING))			
S816	1-786-220-11	SWITCH, KEY BOARD (FUNCTION)			
**********					
	A-4726-690-A	TC BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C402	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C403	1-104-509-11	CERAMIC CHIP	0.018uF	10%	16V
C404	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C405	1-126-934-11	ELECT	220uF	20%	10V
C408	1-126-947-11	ELECT	47uF	20%	10V
C409	1-126-963-11	ELECT	4.7uF	20%	50V
C410	1-126-963-11	ELECT	4.7uF	20%	50V
C412	1-126-961-11	ELECT	2.2uF	20%	50V
C414	1-126-947-11	ELECT	47uF	20%	10V
C415	1-126-947-11	ELECT	47uF	20%	10V
C416	1-126-963-11	ELECT	4.7uF	20%	50V
C417	1-126-963-11	ELECT	4.7uF	20%	50V
C420	1-126-965-11	ELECT	22uF	20%	50V
C422	1-162-969-11	CERAMIC CHIP	0.0068uF	10%	25V
C423	1-126-960-11	ELECT	1uF	20%	50V
C424	1-126-960-11	ELECT	1uF	20%	50V
C425	1-126-934-11	ELECT	220uF	20%	16V
C428	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

TC

Ref. No.	Part No.	Description			Remark
C429	1-164-730-11	CERAMIC CHIP	0.0012uF	10%	50V
C430	1-164-730-11	CERAMIC CHIP	0.0012uF	10%	50V
C431	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C432	1-136-967-11	MYLAR	0.012uF	5%	50V
C433	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C434	1-126-947-11	ELECT	47uF	20%	10V
C435	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C436	1-104-509-11	CERAMIC CHIP	0.018uF	10%	16V
C437	1-126-934-11	ELECT	220uF	20%	10V
C438	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C439	1-126-935-11	ELECT	470uF	20%	16V
C440	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C450	1-126-965-11	ELECT	22uF	20%	50V
		< CONNECTOR >			
* CN301	1-569-366-11	SOCKET, CONNECTOR 18P			
CN302	1-569-927-11	SOCKET, CONNECTOR 9P			
* CN303	1-506-984-11	PIN, CONNECTOR (PC BOARD) 2P			
		< DIODE >			
D401	8-719-975-40	DIODE RB411D-T146			
		< IC >			
IC401	8-759-242-58	IC TA8189N			
IC402	8-759-508-69	IC BA3126N			
		< TRANSISTOR >			
Q401	8-729-212-02	TRANSISTOR	KTC3203Y-AT		
Q402	8-729-037-02	TRANSISTOR	KTA1266Y-AT		
Q403	8-729-038-67	TRANSISTOR	KRC102S		
Q406	8-729-920-31	TRANSISTOR	DTC343TK-T-146		
Q407	8-729-920-31	TRANSISTOR	DTC343TK-T-146		
Q413	8-729-920-31	TRANSISTOR	DTC343TK-T-146		
Q414	8-729-920-31	TRANSISTOR	DTC343TK-T-146		
		< RESISTOR >			
R399	1-216-821-11	METAL CHIP	1K	5%	1/16W
R400	1-216-833-11	METAL CHIP	10K	5%	1/16W
R403	1-216-805-11	METAL CHIP	47	5%	1/16W
R405	1-216-809-11	METAL CHIP	100	5%	1/16W
R406	1-216-831-11	METAL CHIP	6.8K	5%	1/16W
R407	1-216-848-11	METAL CHIP	180K	5%	1/16W
R408	1-216-831-11	METAL CHIP	6.8K	5%	1/16W
R409	1-216-809-11	METAL CHIP	100	5%	1/16W
R410	1-216-848-11	METAL CHIP	180K	5%	1/16W
R411	1-216-845-11	METAL CHIP	100K	5%	1/16W
R412	1-216-824-11	METAL CHIP	1.8K	5%	1/16W
R413	1-216-848-11	METAL CHIP	180K	5%	1/16W
R414	1-216-833-11	METAL CHIP	10K	5%	1/16W
R415	1-216-833-11	METAL CHIP	10K	5%	1/16W
R416	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R417	1-216-805-11	METAL CHIP	47	5%	1/16W
R418	1-216-845-11	METAL CHIP	100K	5%	1/16W
R419	1-216-824-11	METAL CHIP	1.8K	5%	1/16W
R420	1-216-848-11	METAL CHIP	180K	5%	1/16W
R421	1-216-857-11	METAL CHIP	1M	5%	1/16W

Ref. No.	Part No.	Description			Remark
R422	1-216-833-11	METAL CHIP	10K	5%	1/16W
R423	1-216-837-11	METAL CHIP	22K	5%	1/16W
R424	1-216-841-11	METAL CHIP	47K	5%	1/16W
R425	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R426	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R427	1-216-809-11	METAL CHIP	100	5%	1/16W
R428	1-216-835-11	METAL CHIP	15K	5%	1/16W
R429	1-216-835-11	METAL CHIP	15K	5%	1/16W
R430	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R431	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R432	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R433	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R434	1-216-803-11	METAL CHIP	33	5%	1/16W
R435	1-216-833-11	METAL CHIP	10K	5%	1/16W
R436	1-216-797-11	METAL CHIP	10	5%	1/16W
R437	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R438	1-216-841-11	METAL CHIP	47K	5%	1/16W
R439	1-216-833-11	METAL CHIP	10K	5%	1/16W
R440	1-218-446-11	METAL CHIP	1	5%	1/16W
R441	1-216-821-11	METAL CHIP	1K	5%	1/16W
R442	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
		< BIAS OSCILLATION/COIL >			
T401	1-433-372-11	TRANSFORMER, BIAS OSCILLATION			
T402	1-419-080-11	COIL			
T403	1-419-080-11	COIL			

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MISCELLANEOUS
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1	1-796-101-12	DECK, MECH (TAPE)
3	1-757-809-11	CABLE, FLEXIBLE FLAT (9 CORE)
4	1-757-806-11	CABLE, FLEXIBLE FLAT (18 CORE)
55	1-823-469-11	CABLE, FLEXIBLE FLAT (20 CORE)
56	1-823-470-11	CABLE, FLEXIBLE FLAT (18 CORE)
70	1-418-693-32	INDICATOR BLOCK, LED
102	1-792-411-11	CABLE, FLEXIBLE FLAT (19 CORE)
⚠105	1-696-169-11	CORD, POWER (AEP, HK, MY, SP, UK)
⚠105	1-783-532-11	CORD, POWER (CND, US)
108	1-823-226-11	CABLE, FLEXIBLE FLAT (16 CORE)
⚠553	8-820-020-02	OPTICAL PICK-UP KSM-213D/Q-RP
555	1-757-055-11	WIRE, PARALLEL (FFC) (16CORE)
M901	A-4735-143-A	MOTOR (LD) ASSY (LOADING)
⚠T902	1-437-248-11	TRANSFORMER, POWER (AEP, UK)
⚠T902	1-437-249-11	TRANSFORMER, POWER (CND, US)
⚠T902	1-437-250-11	TRANSFORMER, POWER (HK, MY, SP)
TU1	A-4476-414-A	TUNER PACK (TCB-022) (AEP, UK)
TU1	A-4476-415-A	TUNER PACK (TCB-022) (EXCEPT AEP, UK)

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The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
		**********	
		HARDWARE LIST	
		**********	
#1	7-685-546-14	SCREW +BTP 3X8 TYPE2 N-S	
#2	7-685-245-19	SCREW +KTP 3X6 TYPE2 NON-SLIT	
#3	7-685-861-01	SCREW +BVTT 2.6X5 (S)	
#4	7-685-246-14	SCREW +KTP 3X8 TYPE2 NON-SLIT	
#5	7-685-659-14	SCREW +BVTP 4X8 TYPE2 N-S	
#6	7-685-548-19	SCREW +BTP 3X12 TYPE2 N-S	
#7	7-685-102-19	SCREW +P 2X4 TYPE2 NON-SLIT	
#8	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
#11	7-685-533-19	SCREW +BTP 2.6X6 TYPE2 N-S	
**********			
		ACCESSORIES & PACKING MATERIALS	
		**********	
⚠	1-770-019-11	ADAPTOR, CONVERSION PLUG 3P (HK, UK)	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

SS-CDC1

SERVICE MANUAL

Ver 1.1 2001.10

US Model
Canadian Model
AEP Model
UK Model
E Model

- SS-CDC1 is speaker systems in CMT-DC1/DC1K.

SPECIFICATIONS

Speaker system	Two-way, bass reflex system
Speaker units	12 cm dia., cone type woofer
	2.5 cm dia., semi-dome-type tweeter
Rated impedance	6 ohms
Dimensions (w/h/d)	Approx. 150 × 253 × 272 mm
Mass	Approx. 2.6 kg net per speaker

Design and specifications are subject to change without notice.

SPEAKER SYSTEM

9-873-212-02
2001J0500-1
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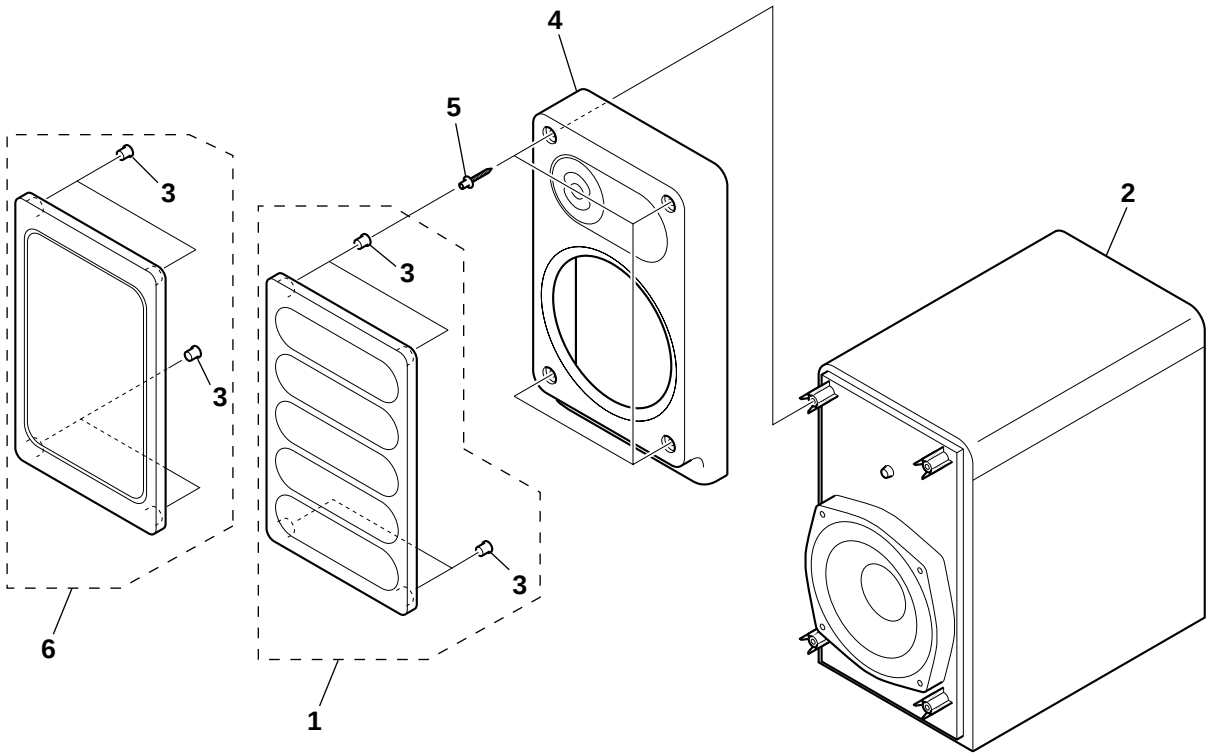
Sony Corporation
Home Audio Company
Published by Sony Engineering Corporation

SONY®

EXPLODED VIEW AND PARTS LIST

NOTE:

- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example:
  KNOB, BALANCE (WHITE) . . . (RED)
  ↑ ↑
  Parts Color Cabinet's Color
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.



Ref. No.	Part No.	Description	Remark
1	X-4954-044-1	NET ASSY, SPEAKER (SILVER)	
1	X-4954-079-1	NET ASSY, SPEAKER (BLACK)	
1	X-4954-080-1	NET ASSY, SPEAKER (RED)	
2	A-4735-768-A	BOX ASSY, SPK (SILVER)	
2	A-4735-769-A	BOX ASSY, SPK (BLACK)	
2	A-4735-770-A	BOX ASSY, SPK (RED)	
3	4-218-202-01	CATCHER, NET	
4	A-4735-771-A	FRONT PANEL ASSY, SPK (L, SILVER)	
4	A-4735-772-A	FRONT PANEL ASSY, SPK (R, SILVER)	
4	A-4735-773-A	FRONT PANEL ASSY, SPK(L, BLACK)	
4	A-4735-774-A	FRONT PANEL ASSY, SPK(R, BLACK)	
4	A-4735-775-A	FRONT PANEL ASSY, SPK (L, RED)	
4	A-4735-776-A	FRONT PANEL ASSY, SPK (R, RED)	
5	4-874-614-11	SCREW (4) (3.5X14), TAPPING	
6	X-4954-317-1	NET ASSY (A), SPEAKER (SILVER)	
6	X-4954-318-1	NET ASSY (A), SPEAKER (BLACK)	
6	X-4954-319-1	NET ASSY (A), SPEAKER (RED)	

MEMO

REVISION HISTORY

Clicking the version allows you to jump to the revised page.
Also, clicking the version at the upper right on the revised page allows you to jump to the next revised page.

Ver.	Date	Description of Revision
1.1	2001.10	Changing of parts supply classification (ECN-TAF03007)
1.0	2001.06	New